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(54) Title: POLYMORPHISMS AND NEW GENES IN THE REGION OF THE HUMAN HEMOCHROMATOSIS GENE		
(57) Abstract Polymorphic sites in the region surrounding the HFE gene are provided. These polymorphisms are useful as surrogate markers in diagnostic assays for hemochromatosis. Additionally, a fine structure map of the 1 megabase region surrounding the HFE gene is provided, along with 235 kb of DNA sequence and 8 loci corresponding to candidate genes within the 1 megabase region, and in the purification of related proteins.		

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Polymorphisms and New Genes in the Region of the Human Hemochromatosis Gene

BACKGROUND OF THE INVENTION

Hereditary hemochromatosis (HH) is an inherited disorder of iron metabolism wherein the body accumulates excess iron. In symptomatic individuals, this excess iron leads to deleterious effects by being deposited in a variety of organs leading to their failure, and resulting in cirrhosis, diabetes, sterility, and other serious illnesses. The gene which is defective in this disease was disclosed in copending U.S.S.N. 08/652,265.

Fine structure mapping of the region to which the gene responsible for HH, HFE (denoted HH or HFE in some publications), was mapped makes possible the identification of candidate sequences comprising the HFE gene, along with structural elements for regulation and expression and neighboring genes.

A variety of techniques is available for fine structure mapping, including direct cDNA selection, exon-trapping, and genomic sample sequencing. The direct selection approach (Lovett *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:9628-9623 (1991)) involves the hybridization of cDNA fragments to genomic DNA. This technique is extremely sensitive and capable of isolating portions of rare transcripts. Exon-trapping (Church *et al.* Nature Genetics 6:98-105 (1994)) recovers spliced introns from *in vivo* expressed genomic DNA clones and produces candidate exons without requiring any prior knowledge of the target's gene expression. High-throughput genomic DNA sequencing with comparison of the sequence data to databases of expressed sequences has also been used, such as in the positional cloning of the Werner syndrome gene (Yu *et al.* Science 277:258-262 (1996)) and in cloning by homology of the second Alzheimer's disease gene on chromosome 1 (Levy-Lahad *et al.* Science 269:973-977 (1995)).

HH is typically inherited as a recessive trait; in the current state of knowledge, homozygotes carrying two defective copies of the gene are most frequently affected by the disease. In addition, heterozygotes for the HFE gene are more susceptible to sporadic porphyria cutanea tarda and potentially other disorders (Roberts *et al.*, Lancet 349:321-323 (1997)). It is estimated that approximately 10-15% of Caucasians carry one copy of the HFE gene mutation and that there are about one million homozygotes in the United States. HH, thus, represents one of the most common genetic disease mutations in Caucasian individuals. Although ultimately HH produces debilitating symptoms, the majority of homozygotes and heterozygotes have not been diagnosed.

The need for such diagnostics is documented, for example, in Barton, J.C. *et al.* Nature Medicine 2:394-395 (1996); Finch, C.A. West J Med 153:323-325 (1990); McCusick, V. Mendelian Inheritance in Man pp. 1882-1887, 11th ed., (Johns Hopkins University Press, Baltimore (1994)); Report of a Joint World Health Organization/Hemochromatosis Foundation/French Hemochromatosis Association Meeting on the Prevention and Control of Hemochromatosis (1993); Edwards, C.Q. *et al.* New Engl J Med 328:1616-1620 (1993); Bacon, B.R. New Engl J Med 326:126-

127 (1992); Balan, V. et al. Gastroenterology 107:453-459 (1994); Phatak, P.D. et al. Arch Int Med 154:769-776 (1994).

A single mutation in the HFE gene, designated 24d1 in copending U.S.S.N. 08/630,912, gave rise to the majority of disease-causing chromosomes present in the population today.

5 This is referred to herein as the "common" or "ancestral" or "common ancestral" mutation. These terms are used interchangeably. It appears that about 80% to 90% of all HH patients carry at least one copy of the common ancestral mutation which is closely linked to specific alleles of certain genetic markers close to this ancestral HFE gene defect. These markers are, as a first approximation, in the allelic form in which they were present at the time the ancestral HFE mutation occurred. See, for
10 *example*, Simon, M. et al. Am J Hum Genet 41:89-105 (1987); Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995); Worwood, M. et al. Brit J Hematol 86:863-866 (1994); Summers, K.M. et al. Am J Hum Genet 45:41-48 (1989).

Several polymorphic markers in the HFE region have been described and shown to have alleles that are associated with HH disease. These markers include the published microsatellite
15 markers D6S258, D6S306 (Gyapay, G. et al. Nature Genetics 7:246-339 (1994)), D6S265 (Worwood, M. et al. Brit J Hematol 86:833-846 (1994)), D6S105 (Jazwinska, E.C. et al. Am J Hum Genet 53:242-257 (1993); Jazwinska, E.C. et al. Am J Hum Genet 56:428-433 (1995)), D6S1001 (Stone, C. et al. Hum Molec Genet 3:2043-2046 (1994)), D6S1260 (Raha-Chowdhury et al. Hum Molec Genet 4:1869-1874 (1995)) as well as additional microsatellite and single-nucleotide-polymorphism markers
20 disclosed in co-pending PCT application WO 96/06583, the disclosure of which is hereby incorporated by reference in its entirety. Additionally, copending U.S.S.N. 08/630,912 disclosed additional markers 24d2 and 24d7.

The symptoms of HH are often similar to those of other conditions, and the severe effects of the disease often do not appear immediately. Accordingly, it would be desirable to provide a
25 method to identify persons who may be destined to become symptomatic in order to intervene in time to prevent excessive tissue damage associated with iron overload. One reason for the lack of early diagnosis is the inadequacy of presently available diagnostic methods to ascertain which individuals are at risk, especially while such individuals are presymptomatic.

Although blood iron parameters can be used as a screening tool, a confirmed
30 diagnosis often employs liver biopsy which is undesirably invasive, costly, and carries a risk of mortality. Thus, there is a clear need for the development of an inexpensive and noninvasive diagnostic test for detection of homozygotes and heterozygotes in order to facilitate diagnosis in symptomatic individuals, provide presymptomatic detection to guide intervention in order to prevent organ damage, and for identification of heterozygote carriers.

35 Furthermore, a need exists for both methods for fine structure mapping and a fine structure map of the region of the chromosome to which the HH locus maps. This and other needs are addressed by the present invention.

SUMMARY OF THE INVENTION

One aspect of the invention is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1.

Another aspect of the invention is an oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1.

Another aspect of the invention is an isolated nucleic acid molecule comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic site of Table 1.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a haplotype of

Table 1,

wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:

providing DNA or RNA from the individual; and

assessing the DNA or RNA for the presence or absence of a genotype

defined by a polymorphic allele of Table 1,

wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a culture of lymphoblastoid cells having the designation ATCC CRL-12371.

One aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF3.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF5.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to RoRet.

5 Additional aspects of the invention include nucleic acid sequences that are cDNAs, polypeptides encoded by the nucleic acids of the invention and antibodies specifically immunoreactive thereto, vectors comprising the nucleic acid sequences of the invention, and host cells stably transfected with the nucleic acids of the invention.

10 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF3.

15 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of BTF5.

20 A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT3.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of NPT4.

A further aspect of the invention is an isolated nucleic acid sequence comprising at least 18 contiguous nucleotides substantially identical to at least 18 contiguous nucleotides of RoRet.

25 BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 depicts a combination genetic, physical and transcription map of the HFE gene region. The first line shows the relative positions of selected genetic markers that define the HFE region. The heavy bar below represents the YAC clone used in the direct selection experiment. The order and positions of the bacterial clones employed in the exon-trapping and sample sequencing is indicated under the YAC. The thin bar under the bacterial clones represents the approximate locations of a subset of the expressed sequence fragments mapped to the contig. The thicker bars show the location of the cDNAs cloned. Two regions are bracketed; the butyrophilin family of genes (BTF), and the region where complete genomic sequencing was carried out.

30 Figure 2 is a schematic of the 250 kb of genomic sequence including the HFE gene. Both the structure of the overall cDNA (top) and that corresponding to the coding regions (bottom), as well as the direction of transcription are shown. The positions of the histone genes, the zinc α -2 glycoprotein pseudogene, and the ESTs are also shown.

35 Figure 3 depicts an alignment of the predicted amino acid sequence of the BTF proteins. Sequences were aligned in a pair-wise fashion using CLUSTAL W (Thompson *et al.* Nucl. Acids Res. 22:4673-4680) to deduce the most parsimonious arrangement. The asterisks under the

40

alignment represent amino acids conserved in all 6 proteins; the "dots" represent conserved amino acids substitutions. Boxed are the regions within the proteins which correspond to three conserved motifs: 1) the B-G domain, 2) the transmembrane domain (TM), and 3) the B30-2 exon domain.

Figure 4, panel (A) depicts a Northern blot analysis of representative members of the two groups of BTF proteins, BTF1 and BTF5. BTF1 hybridized to all tissues on the blot as a major transcript at 2.9 kb and a minor one at 5.0 kb. BTF5 hybridized to several transcripts ranging between 4.0 and 3.1 kb and as a similar expression profile to BTF1. Autoradiography was for 24 hours. The β -actin hybridization demonstrated the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. In panel (B), RT-PCR analysis demonstrated that the expression of both genes was widespread. Included in the (+) lane are cDNA 21 and 44 as positive controls; the (-) lane represents the no-DNA control. Amplification using primers for the RFP gene (Isomura *et al.* Nucleic Acid Res. 20:5305-5310 (1992)) controlled for the integrity of the cDNA. All first strand cDNAs were checked for contaminating genomic DNA amplification by carrying out an identical experiment excluding the reverse transcriptase. In all cases, no amplification was obtained (data not shown).

Figure 5(A) depicts an alignment of the predicted amino acid sequence of the RoRet gene to the 52 kD Ro/SSA auto-antigen protein. The asterisks under the alignment represent conserved amino acids; the "dots" represent conserved amino acids substitutions. The putative DNA binding cysteine-rich domain and the B30-2 exon domain are boxed. Figure 5(B) depicts an alignment of the predicted amino acid sequence of the two novel putative sodium phosphate transport proteins to that of the NPT1.

Figure 6, panel (A) depicts a Northern blot analysis of the RoRet gene. The RoRet cDNA hybridized to 4 different transcripts, ranging from 7.1 kb to 2.2 kb. Autoradiography was performed for 4 days. The re-hybridization of the blot with a β -actin probe showed the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. Panel (B) depicts RT-PCR analysis of the RoRet gene. Included in the (+) lane was a cDNA 27 positive control. Weak amplification of the correct size was observed in the small intestine, kidney and liver. The other tissues were negative as was the no DNA control lane (-). The RFP primers demonstrated the integrity of the cDNA. Panel (C) depicts Northern blot analysis of NPT3 and NPT4. NPT3 was expressed at high abundance in the heart and muscle as a single 7.2 kb transcript. Lesser amounts were found in the other tissues. The expression pattern of NPT4 was more restricted, being found only in the liver and kidney as a smear of transcripts ranging from 2.6 to 1.7 kb. Panel (D) depicts RT-PCR analysis of the NPT3 and NPT4 genes. Included in the (+) lane were the respective cDNA22E and 22B positive controls. The NPT3 gene was expressed as the proper size PCR fragment in kidney, liver, spleen and testis. A smaller fragment was detected in all tissues with the exception of the liver. The no DNA control lane (-) was negative. NPT4 was expressed as the proper size fragment in the small intestine, kidney, liver and testis. Larger and smaller size fragments were found in all other tissues with the exception of the brain. For both genes these different size fragments may indicate alternative splice events. The no DNA control lane (-) was negative. The RFP primers demonstrated the integrity of the cDNA.

Figure 7 depicts the sequences of cDNA 21 (BTF1), cDNA 29 (BTF3), cDNA 23 (BTF4), cDNA 44 (BTF5), cDNA 32 (BTF2), cDNA 27 (RoRet), cDNA 22B (NPT3), cDNA22E (NPT4).

Figure 8 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an unaffected individual.

Figure 9 depicts the nucleotide sequence of approximately 235 kb in the HFE subregion from an HH affected individual. Polymorphic sites in the HH affected individual determined by comparing a sequence of the corresponding region from an HH unaffected individual are listed and described in Table I.

DETAILED DESCRIPTION

A. Definitions

Abbreviations for the twenty naturally occurring amino acids follow conventional usage. In the polypeptide notation used herein, the left-hand direction is the amino terminal direction and the right-hand direction is the carboxyl-terminal direction, in accordance with standard usage and convention. Similarly, unless specified otherwise, the left hand end of single-stranded polynucleotide sequences is the 5' end; the left hand direction of double-stranded polynucleotide sequences is referred to as the 5' direction. The direction of 5' to 3' addition of nascent RNA transcripts is referred to as the transcription direction; sequence regions on the DNA strand having the same sequence as the RNA and which are 5' to the 5' end of the RNA transcript are referred to as "upstream sequences"; sequence regions on the DNA strand having the same sequence as the RNA and which are 3' to the 3' end of the RNA transcript are referred to as "downstream sequences".

The term "nucleic acids", as used herein, refers to either DNA or RNA. "Nucleic acid sequence" or "polynucleotide sequence" refers to a single- or double-stranded polymer of deoxyribonucleotide or ribonucleotide bases read from the 5' to the 3' end. It includes both self-replicating plasmids, infectious polymers of DNA or RNA and nonfunctional DNA or RNA. The complement of any nucleic acid sequence of the invention is understood to be included in the definition of that sequence.

"Nucleic acid probes" may be DNA or RNA fragments. DNA fragments can be prepared, for example, by digesting plasmid DNA, or by use of PCR, or synthesized by either the phosphoramidite method described by Beaucage and Carruthers, Tetrahedron Lett. 22:1859-1862 (1981), or by the triester method according to Matteucci, *et al.*, J. Am. Chem. Soc. 103:3185 (1981), both incorporated herein by reference. A double stranded fragment may then be obtained, if desired, by annealing the chemically synthesized single strands together under appropriate conditions or by synthesizing the complementary strand using DNA polymerase with an appropriate primer sequence. Where a specific sequence for a nucleic acid probe is given, it is understood that the complementary strand is also identified and included. The complementary strand will work equally well in situations where the target is a double-stranded nucleic acid.

The phrase "selectively hybridizing to" refers to a nucleic acid probe that hybridizes, duplexes or binds only to a particular target DNA or RNA sequence when the target sequences are present in a preparation of total cellular DNA or RNA. "Complementary" or "target" nucleic acid sequences refer to those nucleic acid sequences which selectively hybridize to a nucleic acid probe. Proper annealing conditions depend, for example, upon a probe's length, base composition, and the number of mismatches and their position on the probe, and must often be determined empirically. For

discussions of nucleic acid probe design and annealing conditions, see, for example, Sambrook *et al.*, Molecular Cloning: a Laboratory Manual (2nd ed.), Vols. 1-3, Cold Spring Harbor Laboratory, (1989) or Current Protocols in Molecular Biology, F. Ausubel *et al.*, ed. Greene Publishing and Wiley-Interscience, New York (1987).

5 The phrase "nucleic acid sequence encoding" refers to a nucleic acid which directs the expression of a specific protein or peptide. The nucleic acid sequences include both the DNA strand sequence that is transcribed into RNA and the RNA sequence that is translated into protein. The nucleic acid sequences include both the full length nucleic acid sequences as well as non-full length sequences derived from the full length protein. It being further understood that the sequence includes the degenerate codons of the native sequence or sequences which may be introduced to provide codon preference in a specific host cell.

 The phrase "isolated" or "substantially pure" refers to nucleic acid preparations that lack at least one protein or nucleic acid normally associated with the nucleic acid in a host cell.

15 The phrase "expression cassette", refers to nucleotide sequences which are capable of affecting expression of a structural gene in hosts compatible with such sequences. Such cassettes include at least promoters and optionally, transcription termination signals. Additional factors necessary or helpful in effecting expression may also be used as described herein.

 The term "operably linked" as used herein refers to linkage of a promoter upstream from a DNA sequence such that the promoter mediates transcription of the DNA sequence.

20 The term "vector", refers to viral expression systems, autonomous self-replicating circular DNA (plasmids), and includes both expression and nonexpression plasmids. Where a recombinant microorganism or cell culture is described as hosting an "expression vector," this includes both extrachromosomal circular DNA and DNA that has been incorporated into the host chromosome(s). Where a vector is being maintained by a host cell, the vector may either be stably replicated by the cells during mitosis as an autonomous structure, or is incorporated within the host's genome.

25 The term "gene" as used herein is intended to refer to a nucleic acid sequence which encodes a polypeptide. This definition includes various sequence polymorphisms, mutations, and/or sequence variants wherein such alterations do not affect the function of the gene product. The term "gene" is intended to include not only coding sequences but also regulatory regions such as promoters, enhancers, and termination regions. The term further includes all introns and other DNA sequences spliced from the mRNA transcript, along with variants resulting from alternative splice sites.

30 The term "plasmid" refers to an autonomous circular DNA molecule capable of replication in a cell, and includes both the expression and nonexpression types. Where a recombinant microorganism or cell culture is described as hosting an "expression plasmid", this includes both extrachromosomal circular DNA molecules and DNA that has been incorporated into the host chromosome(s). Where a plasmid is being maintained by a host cell, the plasmid is either being stably replicated by the cells during mitosis as an autonomous structure or is incorporated within the host's genome.

The phrase "recombinant protein" or "recombinantly produced protein" refers to a peptide or protein produced using non-native cells that do not have an endogenous copy of DNA able to express the protein. The cells produce the protein because they have been genetically altered by the introduction of the appropriate nucleic acid sequence. The recombinant protein will not be found in association with proteins and other subcellular components normally associated with the cells producing the protein. The terms "protein" and "polypeptide" are used interchangeably herein.

The following terms are used to describe the sequence relationships between two or more nucleic acids or polynucleotides: "reference sequence", "comparison window", "sequence identity", "percentage of sequence identity", and "substantial identity". A "reference sequence" is a defined sequence used as a basis for a sequence comparison; a reference sequence may be a subset of a larger sequence, for example, as a segment of a full-length cDNA or gene sequence given in a sequence listing, or may comprise a complete cDNA or gene sequence.

Optimal alignment of sequences for aligning a comparison window may, for example, be conducted by the local homology algorithm of Smith and Waterman Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman and Wunsch J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson and Lipman Proc. Natl. Acad. Sci. U.S.A. 85:2444 (1988), or by computerized implementations of these algorithms (for example, GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package Release 7.0, Genetics Computer Group, 575 Science Dr., Madison, WI).

The terms "substantial identity" or "substantial sequence identity" as applied to nucleic acid sequences and as used herein and denote a characteristic of a polynucleotide sequence, wherein the polynucleotide comprises a sequence that has at least 85 percent sequence identity, preferably at least 90 to 95 percent sequence identity, and more preferably at least 99 percent sequence identity as compared to a reference sequence over a comparison window of at least 20 nucleotide positions, frequently over a window of at least 25-50 nucleotides, wherein the percentage of sequence identity is calculated by comparing the reference sequence to the polynucleotide sequence which may include deletions or additions which total 20 percent or less of the reference sequence over the window of comparison. The reference sequence may be a subset of a larger sequence.

As applied to polypeptides, the terms "substantial identity" or "substantial sequence identity" mean that two peptide sequences, when optimally aligned, such as by the programs GAP or BESTFIT using default gap weights, share at least 80 percent sequence identity, preferably at least 90 percent sequence identity, more preferably at least 95 percent sequence identity or more.

"Percentage amino acid identity" or "percentage amino acid sequence identity" refers to a comparison of the amino acids of two polypeptides which, when optimally aligned, have approximately the designated percentage of the same amino acids. For example, "95% amino acid identity" refers to a comparison of the amino acids of two polypeptides which when optimally aligned have 95% amino acid identity. Preferably, residue positions which are not identical differ by conservative amino acid substitutions. For example, the substitution of amino acids having similar chemical properties such as charge or polarity are not likely to effect the properties of a protein. Examples include glutamine for asparagine or glutamic acid for aspartic acid.

The phrase "substantially purified" or "isolated" when referring to a peptide or protein, means a chemical composition which is essentially free of other cellular components. It is preferably in a homogeneous state although it can be in either a dry or aqueous solution. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein which is the predominant species present in a preparation is substantially purified. Generally, a substantially purified or isolated protein will comprise more than 80% of all macromolecular species present in the preparation. Preferably, the protein is purified to represent greater than 90% of all macromolecular species present. More preferably the protein is purified to greater than 95%, and most preferably the protein is purified to essential homogeneity, wherein other macromolecular species are not detected by conventional techniques.

The phrase "specifically binds to an antibody" or "specifically immunoreactive with", when referring to a protein or peptide, refers to a binding reaction which is determinative of the presence of the protein in the presence of a heterogeneous population of proteins and other biologies. Thus, under designated immunoassay conditions, the specified antibodies bind to a particular protein and do not bind in a significant amount to other proteins present in the sample. Specific binding to an antibody under such conditions may require an antibody that is selected for its specificity for a particular protein. A variety of immunoassay formats may be used to select antibodies specifically immunoreactive with a particular protein. For example, solid-phase ELISA immunoassays are routinely used to select monoclonal antibodies specifically immunoreactive with a protein. See Harlow and Lane (1988) Antibodies, a Laboratory Manual, Cold Spring Harbor Publications, New York, for a description of immunoassay formats and conditions that can be used to determine specific immunoreactivity.

As used herein, "EST" or "Expressed Sequence Tag" refers to a partial DNA or cDNA sequence of about 150 to 500, more preferably about 300, sequential nucleotides of a longer sequence obtained from a genomic or cDNA library prepared from a selected cell, cell type, tissue or tissue type, or organisms which longer sequence corresponds to an mRNA or a gene found in that library. An EST is generally DNA. One or more libraries made from a single tissue type typically provide at least 3000 different (i.e. unique) EST's and potentially the full complement of all possible EST's representing all possible cDNAs, e.g., 50,000 - 100,000 in an animal such as a human. (See, for example, Adams *et al.* Science 252:1651-1656 (1991)).

"Stringent" as used herein refers to hybridization and wash conditions of 50% formamide at 42°C. Other stringent hybridization conditions may also be selected. Generally, stringent conditions are selected to be about 5° C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength and pH. The T_m is the temperature (under defined ionic strength and pH) at which 50% of the target sequence hybridizes to a perfectly matched probe. Typically, stringent conditions will be those in which the salt concentration is at least about 0.02 molar at pH 7 and the temperature is at least about 60°C. As other factors may significantly affect the stringency of hybridization, including, among others, base composition and size of the complementary strands, the presence of organic solvents and the extent of base mismatching, the combination of parameters is more important than the absolute measure of any one.

B. Transcript Map and New Genes near HH

The instant invention provides a fine structure map of the 1 megabase region surrounding the HFE gene. As part of that map the instant invention provides approximately 250 kb of DNA sequence of which about 235 kb are provided in Figure 8 and eight loci of particular interest corresponding to candidate genes within the 1 megabase region. These loci are useful as genetic and physical markers for further mapping studies. Additionally, the eight cDNA sequences corresponding to those loci are useful, for example, for the isolation of other genes in putative gene families, the identification of homologs from other species, and as probes for diagnostic assays. In particular, isolated nucleic acid sequences of at least 18 nucleotides substantially identical to contiguous nucleotides of a cDNA of the invention are useful as PCR primers. Typically, the PCR primer will be used as part of a pair of primers in a PCR reaction. Isolated nucleic acid sequences preferably comprising about 18-100 nucleotides, more preferably at least 18 nucleotides, substantially identical to contiguous nucleotides in a cDNA of the invention are useful in the design of PCR primers and probes for hybridization assays. Additionally, the proteins encoded by those cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

Thus, in one embodiment of the invention, a 235 kb sequence is provided for the HFE subregion within the 1 megabase region mapped. This sequence can serve as a reference in genetic or physical analysis of deletions, substitutions, and insertions in that region. Additionally, the sequence information provides a resource for the further identification of new genes in that region. Thus, nucleic acid sequences substantially identically to the 235 kb sequence are also included in the scope of this invention.

In a further embodiment of the invention, a family of five genes, BTF1-5, is provided which are related by sequence homology to the milk protein butyrophilin (BT) (Figures 1, 3, and 7). The predicted amino acid sequences of the proteins encoded by these genes are provided in Figure 3. These cDNAs are useful for the identification of further members of the BT family and to study regulation of expression of this family of genes. The proteins encoded by these cDNAs can be useful in the identification and isolation of ligands for the BT protein, and in the generation of agonists or antagonists of BT function. Nucleic acid sequences substantially identically to BTF1-5 and the proteins encoded by them are also included in the scope of this invention, including allelic forms.

In a further embodiment of the invention, a novel gene RoRet is provided, which is related by sequence homology to the 52 kD Ro/SSA Lupus and Sjogren's syndrome autoantigen. This sequence is especially useful in the identification of other genes that may be involved in Lupus or Sjogren's syndrome. The protein encoded by this cDNA can be useful in the identification and isolation of ligands for the autoantigen, and in the generation of agonists or antagonists of the antigen. Nucleic acid sequences substantially identically to RoRet and the proteins encoded by them are also included in the scope of this invention.

In a further embodiment of the invention, two genes, NPT3 and NPT4, with structural homology to a type 1 sodium transport gene are provided. These cDNAs and the proteins expressed by them are useful in determining the etiology of hypophosphatemia, along with being useful as probes

in the identification and isolation of further members of the gene family. Nucleic acid sequences substantially identically to the NPT1-like sequences and the proteins encoded by them are also included in the scope of this invention.

C. Polymorphic Markers

The invention provides 397 new polymorphic sites in the region of the HFE gene. These polymorphisms are listed in Table 1. As described below, these polymorphisms were identified by comparison of the DNA sequence of an affected individual homozygous for the common ancestral HH mutation with that of an unaffected individual disclosed in copending U.S. 08/724,394.

Table 1. Polymorphic Sites in the HH Region

Base Location	Difference	Base Location	Difference
35-36	AC DEL	19755	G-A
841	T-C	19949	C-T
2662-2663	TT DEL	20085	C-T
3767	T-C	20366-20367	A INS
3829	C-G	20463	C-A
4925-4928	TAAA DEL	20841	A-T
5691	C-T	21059	A-T
5839	T-C	21117	A-G
6011	G-A	21837	A-C
6047	C-G	22293	A-C
6231	G-A	22786	C-A
6643	A DEL	23009	G-A
6698	T-C	24143	T-A
7186	T-C	26175	G-C
7273	G-A	26667	C-A
7545-7558	TCACACACCGATTGG DEL	26994	T-C
7672	G DEL	27838	G-T
7933	T-C	27861	T DEL
8746	T-G	28132	G-A
9115	G-A	29100	G-A
9823	G-A	29454-29457	TTTT DEL
10027	G-A	29787	T-G
10214	C-T	29825	A-C
10828	A-G	30009	T-C
10918	C-G	30177	A-G
10955	A-G	30400	A-G
11524	C-A	31059	T-A
11674	A-G	31280	C-T
11955	T-C	31749	C-T
12173-12175	TTT DEL	32040	C-G
13304	G-A	32556-32559	TGTG DEL
13455	G-A	33017	T-G
14416-14417	A INS	33026	T DEL
14998	C-T	34434	C-T
15564	T-C	35179	A-C
15887	A-G	35695	G-A
15904-15919	CCAAACTGATCTTTGA DEL	35702	G-A
16019	T DEL	35983	A-G
16211	A-T	37411	A-G
17461	A-G	38526	C-T

Base Location	Difference	Base Location	Difference
40431	C-A	72688	C-G
42054-42055	TT DEL	75323-75324	T INS
43783-43784	TTTT INS	75887	G-C
45120	C DEL	77519	T-C
45567	A-C	77749	G-A
46601	A-T	77908	T-C
47255	C-G	78385	C-G
47758	C-A	78592-78593	AG INS
47994	G-C	80189	T-G
48440	G-A	80279	T DEL
48650	T-G	80989-80990	A INS
48680	A-G	81193	T-C
50240	C-T	81273	A DEL
50553	G-A	82166	G-A
50586	G-T	83847	T DEL
51322	G-C	84161-84162	CA-GG
51747	A-G	84533	A-G
52474	C-G	84638	T-G
52733	C-A	85526	T-G
52875	G-A	85705	G-T
53631-53637	TTTTTTT DEL	86984	T-C
53707	G-A	87655	T-C
54819	A-G	87713	A-C
55913	T-C	87892	C-T
56225	A-C	88192	T DEL
56510	T-C	88528	A-G
56566	G-A	89645	A-T
56618	A-T	89728	A-G
57815	A-G	90088	T-C
58011	T DEL	91193-91194	2209bp INS
58247-58248	T INS	91373	T-C
58926	C-G	91433-91434	A INS
59406	C-G	91747	G-A
59422	G-C	93625	T DEL
60221-60222	A INS	95116-95117	T INS
60656-60657	CA DEL	96315	G-A
61162	G-A	97981	A-G
61465	G-A	98351	T DEL
61607	A DEL	99249	C-T
61653	T-C	100094-100095	T INS
61794-61795	T INS	100647-100648	TTC INS
62061	G-C	100951	C-T
62362	T-G	101610	C-G
62732	C-G	102589	C-T
63364	G-A	103076-103077	TATATATATATATA INS
63430-63431	GT INS	103747	T-C
63754	C-T	105638	A-C
63785	A-C	107024	C-T
63870-63871	A INS	107322	C-T
64788	A-G	107858	C-G
64962	G-A	109019	A DEL
65891	C-T	109579	T DEL
66675	G-C	110021	C-A
67186-67187	ATT INS	111251	C-A
67746-67747	TT INS	111425	G-A
68259	T-C	112644	T-A
68836	T-C	113001	G-C
68976	C-G	113130	C-T
72508	T-G	114026	G-A

	Base Location	Difference	Base Location	Difference
	114250	A DEL	176222	T-C
	115217	C-G	176524	A-T
	117995	G-A	176684	G-A
5	118874	A-G	176815	T-C
	119470	T-C	177049	T-C
	119646	G-T	177065	G-T
	120853	C-T	178285	T-C
	121582	G-A	178551-178552	CTTTTTTTTTTTT INS
10	123576	A-C	179114-179115	A INS
	125581	C-T	179260	C-G
	125970	G-T	179281	C-G
	126197	A-G	180023	G-C
	126672	A DEL	180430	T-C
	126672	G-C	180773	T-C
15	128220-128221	A INS	180824	T-C
	132569	C-T	181097	C-T
	133572	A-C	181183	A-T
	134064	T-G	182351	C-T
20	136999	G-A	183197	G-A
	137784	C-T	183623	A-T
	138903	G-A	183653	G-T
	139159-139160	A INS	183657	T-G
	140359	G-A	183795-183796	A INS
25	140898	C-T	184060	G-A
	141313	C DEL	184993	G-A
	141343	T-C	185918	A-G
	142148	T-C	186036	T-C
	142178	C-A	186506-186507	TAAC INS
30	142433-142434	ATAGA INS	186561-186568	TATTTATT DEL
	143783	C-T	186690	G DEL
	144090	C-T	186751	T-A
	144220-144221	A INS	187221	A-G
	144725	A-C	187260	A-G
35	145732-145733	AAAAAAAAAAAAA INS	187444-187447	CTCT DEL
	147016-147017	CG DEL	187831-187832	C INS
	147021	G-T	188638	G-A
	147536	T-G	188642	C-T
	148936	T-A	189246	T-C
40	149061	T-C	190340	A-C
	154341	A-T	190354	A-G
	154588	G-A	190762	A-G
	155464	G-A	191260	G-T
	158574	C-G	193018-193019	AGAT INS
45	160007	C-T	193147	T-G
	164348	A-T	193196-193197	C INS
	164499	C-G	193499	C-T
	166677-166678	AAAG INS	193738	C-G
	167389	G-A	193984-193985	ACACACAC INS
50	168506-168507	AGGATGGTCT INS	194064	C-G
	168515	T-C	194504	A DEL
	169413-169414	AA INS	194734	G-A
	170300-170301	TTGTTGTTGTTG INS	194890	A-C
	170491	G-A	195404	G-A
55	173428	T-C	195693	A-T
	173642	G-A	196205	G-A
	173948	T-G	197424	C-T
	175330	T-C	197513	C-T
	175836	T-C	197670	G-A
	176200	G-C	198055	C-A

Base Location	Difference	Base Location	Difference
198401	C-T	215947	C-A
198692	A-G	216232	A-G
198780	T DEL	217478	G-A
199030	T-G	219052	T-C
199933	C-T	219082-219083	ATATATATATATATATAT INS
200027	G-A	219314	C-A
200439	T-A	219327	G-A
200452	A-G	219560	C-T
200472-200483	AATAATAATAAT DEL	219660	C-T
200559	A-T	219889	G-A
200745	A-G	220198	G-T
200919	T-A	220384	G-A
201816	C-T	220451-220452	CAAAAA INS
201861-201862	42bp INS	221363	G-A
202662	T-C	221645	G-A
202880	T-C	222119	T-C
204341	C-T	222358	A-G
204768	A-T	222367	A-C
205284	T-G	222686	A-G
207400	C-A	222959	T-C
208634	T-C	223270-223271	TT DEL
208718	T DEL	223283	T-C
208862	A-C	224964	T-C
209419-209420	TT DEL	225232	A-C
209802	G-A	225366-225367	TTTT INS
209944	C-G	225416	G-C
210299	A-G	225486	T-C
211142	G-A	226088	A-G
212072	G-A	228421	A-G
212146	T-C	230047	G-A
212379	G-A	230109	G-C
212637-212639	TCT DEL	230376	C-G
212696	T-C	230394	A-G
213042	T-A	231226	A-G
214192	A-G	231447	G-A
214529-214530	TTTTTTTTTTT INS	231835	A-G
214549	T-C	232400-232402	AAA DEL
214795	C-T	232402-232403	G INS
214908	T-G	232515	T-C
214977	A-G	232703	G-T
215769	C-T	232750	A-G

* D6S2238 occurs at base 1. 24d1 occurs at base 41316. D6S2239 occurs at base 84841. D6S2241 occurs at base 235032

Table 2. Polymorphic Allele Frequencies

Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
232703	53%	47%
231835	53%	47%
230394	85%	15%
230376	25%	75%
230109	53%	47%
225486	45%	55%
225416	75%	25%
220198	43%	57%
219660	58%	42%

	Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
	219560	53%	47%
	214977	65%	35%
	214908	50%	50%
5	214795	24%	76%
	214549	53%	47%
	214192	65%	35%
	210299	53%	47%
	208862	80%	20%
10	208634	48%	52%
	207400	25%	75%
	205284	50%	50%
	204341	53%	47%
	202880	58%	42%
15	202662	98%	2%
	200027	25%	75%
	199030	58%	42%
	198692	55%	45%
	198401	55%	45%
20	198055	55%	45%
	195693	60%	40%
	195404	25%	75%
	194890	55%	45%
	175330	53%	47%
25	173948	83%	17%
	173642	55%	45%
	173428	80%	20%
	168515	80%	20%
	160007	18%	82%
30	149061	58%	42%
	148936	82%	18%
	147536	100%	0%
	147021	46%	54%
	141343	55%	45%
35	140359	55%	45%
	138903	55%	45%
	132569	81%	19%
	125581	18%	82%
	121582	80%	20%
40	120853	18%	82%
	118874	85%	15%
	115217	50%	50%
	113130	40%	60%
	113001	48%	52%
45	107858	48%	52%
	103747	50%	50%
	96315	25%	75%
	91194	80%	20%
	90088	75%	25%
50	89728	50%	50%
	89645	50%	50%
	88528	63%	37%
	87892	75%	25%
	87713	60%	40%
55	87655	50%	50%
	86984	79%	21%
	85705	50%	50%
	85526	50%	50%

Location	Frequency of ancestral variant in random chromosomes	Frequency of unaffected variant in random chromosomes
84638	50%	50%
84533	50%	50%
82166	78%	22%
81193	58%	42%
80189	50%	50%
78385	80%	20%
77908	88%	12%
68976	50%	50%
68259	51%	49%
66675	80%	20%
62732	50%	50%
62362	40%	60%
61653	48%	52%
61465	5%	95%
61162	60%	40%
53707	100%	0%
52875	50%	50%
52733	74%	26%
52474	47%	53%
50586	50%	50%
50553	50%	50%
50240	50%	50%
48680	53%	47%
48650	63%	37%
48440	50%	50%
47255	50%	50%
46601	53%	47%
45567	49%	51%
41316	5%	95%
40431	20%	80%
38526	23%	77%
37411	70%	30%
35983	5%	95%

These polymorphisms provide surrogate markers for use in diagnostic assays to detect the likely presence of the mutations 24d1 and/or 24d2, in preferably 24d1, in homozygotes or heterozygotes. Thus, for example, DNA or RNA from an individual is assessed for the presence or absence of a genotype defined by a polymorphic allele of Table 1, wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

These markers may be used singly, in combination with each other, or with other polymorphic markers (such as those disclosed in co-pending PCT application WO 96/06583) in diagnostic assays for the likely presence of the HFE gene mutation in an individual. For example, any of the markers defined by the polymorphic sites of Table 1 can be used in diagnostic assays in combination with 24d1 or 24d2, or at least one of polymorphisms HHP-1, HHP-19, or HHP-29, or microsatellite repeat alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98; 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170; 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-

2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, D6S258:199, D6S265:122, D6S105:124; D6S306:238; D6S464:206; and D6S1001:180.

Table 2 lists the frequency of about 100 of the alleles defined by the polymorphic sites of the invention in the general population. As is evident from the Table, certain of these alleles are present rarely in the general population. These polymorphisms are thus preferred as surrogate markers in diagnostic assays for the presence of a mutant HFE allele ("gene mutation") such as 24d1 or 24d2. Preferably, the frequency of the polymorphic allele used in the diagnostic assay in the general population is less than about 50%, more preferably less than about 25%, and most preferably less than about 5%. Thus, of the genotypes defined by the alleles listed in Table 2, polymorphisms occurring at base 35983 and base 61465 of Figure 1 are preferred.

It will be understood by those of skill in the art that because they were identified in an ancestral HH homozygote, the haplotypes defined by the polymorphic sites of Table 1 are predictive of the likely presence of the HFE gene mutation 24d1. Thus, for example, the likelihood of any affected individual having at least two or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual. Similarly, the likelihood of any affected individual having at least three or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual.

Thus, for example, in a diagnostic assay for the likely presence of the HFE gene mutation in the genome of the individual, DNA or RNA from the individual is assessed for the presence or absence of a haplotype of Table 1, wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

The markers defined by the polymorphic sites of Table 1 are additionally useful as markers for genetic analysis of the inheritance of certain HFE alleles and other genes which occur within the chromosomal region corresponding to the sequence of Figure 9 which include, for example, those disclosed in copending U.S.S.N. 08/724,394.

As the entire nucleotide sequence of the region is provided in Figure 9, it will be evident to those of ordinary skill in the art which sequences to use as primers or probes for detecting each polymorphism of interest. Thus, in some embodiments of the invention, the nucleotide sequences of the invention include at least one oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1. Furthermore, in some embodiments of the invention a preferred hybridization probe is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1. In some embodiments the polymorphic site is at base 35983 or base 61465.

It will also be appreciated that the nucleic acid sequences of the invention include isolated nucleic acid molecules comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic

site of Table 1. Such isolated DNA sequences are useful as primers, probes, or as the component of a kit in diagnostic assays for detecting the likely presence of the HFE gene mutation in an individual.

D. Nucleic Acid Based Screening

Individuals carrying polymorphic alleles of the invention may be detected at either the DNA, the RNA, or the protein level using a variety of techniques that are well known in the art. The genomic DNA used for the diagnosis may be obtained from body cells, such as those present in peripheral blood, urine, saliva, bucca, surgical specimen, and autopsy specimens. The DNA may be used directly or may be amplified enzymatically *in vitro* through use of PCR (Saiki et al. Science 239:487-491 (1988)) or other *in vitro* amplification methods such as the ligase chain reaction (LCR) (Wu and Wallace Genomics 4:560-569 (1989)), strand displacement amplification (SDA) (Walker et al. Proc. Natl. Acad. Sci. U.S.A. 89:392-396 (1992)), self-sustained sequence replication (3SR) (Fahy et al. PCR Methods Appl. 1:25-33 (1992)), prior to mutation analysis. The methodology for preparing nucleic acids in a form that is suitable for mutation detection is well known in the art.

The detection of polymorphisms in specific DNA sequences, such as in the region of the HFE gene, can be accomplished by a variety of methods including, but not limited to, restriction-fragment-length-polymorphism detection based on allele-specific restriction-endonuclease cleavage (Kan and Dozy Lancet ii:910-912 (1978)), hybridization with allele-specific oligonucleotide probes (Wallace et al. Nucl Acids Res 6:3543-3557 (1978)), including immobilized oligonucleotides (Saiki et al. Proc. Natl. Acad. Sci. U.S.A. 86:6230-6234 (1989)) or oligonucleotide arrays (Maskos and Southern Nucl Acids Res 21:2269-2270 (1993)), allele-specific PCR (Newton et al. Nucl Acids Res 17:2503-2516 (1989)), mismatch-repair detection (MRD) (Faham and Cox Genome Res 5:474-482 (1995)), binding of MutS protein (Wagner et al. Nucl Acids Res 23:3944-3948 (1995)), denaturing-gradient gel electrophoresis (DGGE) (Fisher and Lerman et al. Proc. Natl. Acad. Sci. U.S.A. 80:1579-1583 (1983)), single-strand-conformation-polymorphism detection (Orita et al. Genomics 5:874-879 (1983)), RNAase cleavage at mismatched base-pairs (Myers et al. Science 230:1242 (1985)), chemical (Cotton et al. Proc. Natl. Acad. Sci. U.S.A. 85:4397-4401 (1988)) or enzymatic (Youil et al. Proc. Natl. Acad. Sci. U.S.A. 92:87-91 (1995)) cleavage of heteroduplex DNA, methods based on allele specific primer extension (Syvänen et al. Genomics 8:684-692 (1990)), genetic bit analysis (GBA) (Nikiforov et al. Nucl Acids Res 22:4167-4175 (1994)), the oligonucleotide-ligation assay (OLA) (Landegren et al. Science 241:1077 (1988)), the allele-specific ligation chain reaction (LCR) (Barrany Proc. Natl. Acad. Sci. U.S.A. 88:189-193 (1991)), gap-LCR (Abravaya et al. Nucl Acids Res 23:675-682 (1995)), radioactive and/or fluorescent DNA sequencing using standard procedures well known in the art, and peptide nucleic acid (PNA) assays (Orum et al., Nucl. Acids Res. 21:5332-5356 (1993); Thiede et al., Nucl. Acids Res. 24:983-984 (1996)).

In addition to the genotypes defined by the polymorphisms of the invention, as described in co-pending PCT application WO 96/35802 published November 14, 1996, genotypes characterized by the presence of the alleles 19D9:205; 18B4:235; 1A2:239; 1E4:271; 24E2:245; 2B8:206; 3321-1:98 (denoted 3321-1:197 therein); 4073-1:182; 4440-1:180; 4440-2:139; 731-1:177; 5091-1:148; 3216-1:221; 4072-2:170 (denoted 4072-2:148 therein); 950-1:142; 950-2:164; 950-3:165; 950-4:128; 950-6:151; 950-8:137; 63-1:151; 63-2:113; 63-3:169; 65-1:206; 65-2:159; 68-1:167; 241-

5:108; 241-29:113; 373-8:151; and 373-29:113, alleles D6S258:199, D6S265:122, D6S105:124, D6S306:238, D6S464:206; and D6S1001:180, and/or alleles associates with the HHP-1, the HHP-19 or HHP-29 single base-pair polymorphisms can also be used to assist in the identification of an individual whose genome contains 24d1 and/or 24d2. For example, the assessing step can be performed by a process which comprises subjecting the DNA or RNA to amplification using oligonucleotide primers flanking a polymorphism of Table 1, and oligonucleotides flanking 24d1 and/or 24d2, oligonucleotide primers flanking at least one of the base-pair polymorphisms HHP-1, HHP-19, and HHP-29, oligonucleotide primers flanking at least one of the microsatellite repeat alleles, or oligonucleotide primers for any combination of polymorphisms or microsatellite repeat alleles thereof.

Oligonucleotides useful in diagnostic assays are typically at least 8 consecutive nucleotides in length, and may range upwards of 18 nucleotides in length to greater than 100 or more consecutive nucleotides. Such oligonucleotides can be derived from either the genomic DNA of Figure 8 or 9, or cDNA sequences derived therefrom, or may be synthesized.

Additionally, the proteins encoded by such cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.

E. General Methods

The nucleic acid compositions of this invention, whether RNA, cDNA, genomic DNA, or a hybrid of the various combinations, may be isolated from natural sources, including cloned DNA, or may be synthesized *in vitro*. The nucleic acids claimed may be present in transformed or transfected whole cells, in a transformed or transfected cell lysate, or in a partially purified or substantially pure form.

Techniques for nucleic acid manipulation of the nucleic acid sequences of the invention such as subcloning nucleic acid sequences encoding polypeptides into expression vectors, labeling probes, DNA hybridization, and the like are described generally in Sambrook *et al.*, Molecular Cloning - a Laboratory Manual (2nd Ed.), Vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, (1989), which is incorporated herein by reference. This manual is hereinafter referred to as "Sambrook *et al.*"

There are various methods of isolating the nucleic acid sequences of the invention. For example, DNA is isolated from a genomic or cDNA library using labeled oligonucleotide probes having sequences complementary to the sequences disclosed herein. Such probes can be used directly in hybridization assays. Alternatively probes can be designed for use in amplification techniques such as PCR.

To prepare a cDNA library, mRNA is isolated from tissue such as heart or pancreas, preferably a tissue wherein expression of the gene or gene family is likely to occur. cDNA is prepared from the mRNA and ligated into a recombinant vector. The vector is transfected into a recombinant host for propagation, screening and cloning. Methods for making and screening cDNA libraries are well known. See Gubler, U. and Hoffman, B.J. Gene 25:263-269 (1983) and Sambrook *et al.*

For a genomic library, for example, the DNA is extracted from tissue and either mechanically sheared or enzymatically digested to yield fragments of about 12-20 kb. The fragments

are then separated by gradient centrifugation from undesired sizes and are constructed in bacteriophage lambda vectors. These vectors and phage are packaged *in vitro*, as described in Sambrook, *et al.* Recombinant phage are analyzed by plaque hybridization as described in Benton and Davis, Science 196:180-182 (1977). Colony hybridization is carried out as generally described in M. Grunstein *et al.* Proc. Natl. Acad. Sci. USA, 72:3961-3965 (1975).

DNA of interest is identified in either cDNA or genomic libraries by its ability to hybridize with nucleic acid probes, for example on Southern blots, and these DNA regions are isolated by standard methods familiar to those of skill in the art. See Sambrook, *et al.*

In PCR techniques, oligonucleotide primers complementary to the two 3' borders of the DNA region to be amplified are synthesized. The polymerase chain reaction is then carried out using the two primers. See PCR Protocols: a Guide to Methods and Applications (Innis, M, Gelfand, D., Sninsky, J. and White, T., eds.), Academic Press, San Diego (1990). Primers can be selected to amplify the entire regions encoding a full-length sequence of interest or to amplify smaller DNA segments as desired.

PCR can be used in a variety of protocols to isolate cDNA's encoding a sequence of interest. In these protocols, appropriate primers and probes for amplifying DNA encoding a sequence of interest are generated from analysis of the DNA sequences listed herein. Once such regions are PCR-amplified, they can be sequenced and oligonucleotide probes can be prepared from sequence obtained.

Oligonucleotides for use as primers or probes are chemically synthesized according to the solid phase phosphoramidite triester method first described by Beaucage, S.L. and Carruthers, M.H., Tetrahedron Lett., 22(20):1859-1862 (1981) using an automated synthesizer, as described in Needham-VanDevanter, D.R., *et al.*, Nucleic Acids Res. 12:6159-6168 (1984). Purification of oligonucleotides is by either native acrylamide gel electrophoresis or by anion-exchange HPLC as described in Pearson, J.D. and Regnier, F.E., J. Chrom., 255:137-149 (1983). The sequence of the synthetic oligonucleotide can be verified using the chemical degradation method of Maxam, A.M. and Gilbert, W., in Grossman, L. and Moldave, D., eds. Academic Press, New York, Methods in Enzymology 65:499-560 (1980).

1. Expression

Once DNA encoding a sequence of interest is isolated and cloned, one can express the encoded proteins in a variety of recombinantly engineered cells. It is expected that those of skill in the art are knowledgeable in the numerous expression systems available for expression of DNA encoding a sequence of interest. No attempt to describe in detail the various methods known for the expression of proteins in prokaryotes or eukaryotes is made here.

In brief summary, the expression of natural or synthetic nucleic acids encoding a sequence of interest will typically be achieved by operably linking the DNA or cDNA to a promoter (which is either constitutive or inducible), followed by incorporation into an expression vector. The vectors can be suitable for replication and integration in either prokaryotes or eukaryotes. Typical expression vectors contain transcription and translation terminators, initiation sequences, and promoters useful for regulation of the expression of polynucleotide sequence of interest. To obtain

high level expression of a cloned gene, it is desirable to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. The expression vectors may also comprise generic expression cassettes containing at least one independent terminator sequence, sequences permitting replication of the plasmid in both eukaryotes and prokaryotes, *i.e.*, shuttle vectors, and selection markers for both prokaryotic and eukaryotic systems. See Sambrook *et al.* Examples of expression of ATP-sensitive potassium channel proteins in both prokaryotic and eukaryotic systems are described below.

a. **Expression in Prokaryotes**

A variety of procaryotic expression systems may be used to express the proteins of the invention. Examples include *E. coli*, *Bacillus*, *Streptomyces*, and the like.

It is preferred to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. Examples of regulatory regions suitable for this purpose in *E. coli* are the promoter and operator region of the *E. coli* tryptophan biosynthetic pathway as described by Yanofsky, C., *J. Bacteriol.* 158:1018-1024 (1984) and the leftward promoter of phage lambda (P_{λ}) as described by Herskowitz, I. and Hagen, D., *Ann. Rev. Genet.* 14:399-445 (1980). The inclusion of selection markers in DNA vectors transformed in *E. coli* is also useful. Examples of such markers include genes specifying resistance to ampicillin, tetracycline, or chloramphenicol. See Sambrook *et al.* for details concerning selection markers for use in *E. coli*.

To enhance proper folding of the expressed recombinant protein, during purification from *E. coli*, the expressed protein may first be denatured and then renatured. This can be accomplished by solubilizing the bacterially produced proteins in a chaotropic agent such as guanidine HCl and reducing all the cysteine residues with a reducing agent such as beta-mercaptoethanol. The protein is then renatured, either by slow dialysis or by gel filtration. See U.S. Patent No. 4,511,503.

Detection of the expressed antigen is achieved by methods known in the art as radioimmunoassay, or Western blotting techniques or immunoprecipitation. Purification from *E. coli* can be achieved following procedures such as those described in U.S. Patent No. 4,511,503.

b. **Expression in Eukaryotes**

A variety of eukaryotic expression systems such as yeast, insect cell lines, bird, fish, and mammalian cells, are known to those of skill in the art. As explained briefly below, a sequence of interest may be expressed in these eukaryotic systems.

Synthesis of heterologous proteins in yeast is well known. Methods in Yeast Genetics, Sherman, F., *et al.*, Cold Spring Harbor Laboratory, (1982) is a well recognized work describing the various methods available to produce the protein in yeast.

Suitable vectors usually have expression control sequences, such as promoters, including 3-phosphoglycerate kinase or other glycolytic enzymes, and an origin of replication, termination sequences and the like as desired. For instance, suitable vectors are described in the literature (Botstein, *et al.*, Gene 8:17-24 (1979); Broach, *et al.*, Gene 8:121-133 (1979)).

Two procedures are used in transforming yeast cells. In one case, yeast cells are first converted into protoplasts using zymolyase, lyticase or glucylase, followed by addition of DNA and polyethylene glycol (PEG). The PEG-treated protoplasts are then regenerated in a 3% agar medium under selective conditions. Details of this procedure are given in the papers by J.D. Beggs, Nature (London) 275:104-109 (1978); and Hinnen, a., *et al.*, Proc. Natl. Acad. Sci. U.S.A. 75:1929-1933 (1978). The second procedure does not involve removal of the cell wall. Instead the cells are treated with lithium chloride or acetate and PEG and put on selective plates (Ito, H., *et al.*, J. Bact. 153:163-168 (1983)).

The proteins of the invention, once expressed, can be isolated from yeast by lysing the cells and applying standard protein isolation techniques to the lysates. The monitoring of the purification process can be accomplished by using Western blot techniques or radioimmunoassay or other standard immunoassay techniques.

The sequences encoding the proteins of the invention can also be ligated to various expression vectors for use in transforming cell cultures of, for instance, mammalian, insect, bird or fish origin. Illustrative of cell cultures useful for the production of the polypeptides are mammalian cells. Mammalian cell systems often will be in the form of monolayers of cells although mammalian cell suspensions may also be used. A number of suitable host cell lines capable of expressing intact proteins have been developed in the art, and include the HEK293, BHK21, and CHO cell lines, and various human cells such as COS cell lines, HeLa cells, myeloma cell lines, Jurkat cells, etc. Expression vectors for these cells can include expression control sequences, such as an origin of replication, a promoter (e.g., the CMV promoter, a HSV *tk* promoter or *pgk* (phosphoglycerate kinase) promoter), an enhancer (Queen *et al.* Immunol. Rev. 89:49 (1986)), and necessary processing information sites, such as ribosome binding sites, RNA splice sites, polyadenylation sites (e.g., an SV40 large T Ag poly A addition site), and transcriptional terminator sequences. Other animal cells useful for production of ATP-sensitive potassium channel proteins are available, for instance, from the American Type Culture Collection Catalogue of Cell Lines and Hybridomas (7th edition, (1992)).

Appropriate vectors for expressing the proteins of the invention in insect cells are usually derived from the SF9 baculovirus. Suitable insect cell lines include mosquito larvae, silkworm, armyworm, moth and *Drosophila* cell lines such as a Schneider cell line (See Schneider J. Embryol. Exp. Morphol. 27:353-365 (1987)).

As indicated above, the vector, e.g., a plasmid, which is used to transform the host cell, preferably contains DNA sequences to initiate transcription and sequences to control the translation of the protein. These sequences are referred to as expression control sequences.

As with yeast, when higher animal host cells are employed, polyadenylation or transcription terminator sequences from known mammalian genes need to be incorporated into the vector. An example of a terminator sequence is the polyadenylation sequence from the bovine growth hormone gene. Sequences for accurate splicing of the transcript may also be included. An example of a splicing sequence is the VP1 intron from SV40 (Sprague, J. *et al.*, J. Virol. 45: 773-781 (1983)).

Additionally, gene sequences to control replication in the host cell may be incorporated into the vector such as those found in bovine papilloma virus type-vectors.

Saveria-Campo, M., 1985, "Bovine Papilloma virus DNA a Eukaryotic Cloning Vector" in DNA Cloning Vol. II a Practical Approach Ed. D.M. Glover, IRL Press, Arlington, Virginia pp. 213-238.

The host cells are competent or rendered competent for transformation by various means. There are several well-known methods of introducing DNA into animal cells. These include:
5 calcium phosphate precipitation, fusion of the recipient cells with bacterial protoplasts containing the DNA, treatment of the recipient cells with liposomes containing the DNA, DEAE dextran, electroporation and micro-injection of the DNA directly into the cells.

The transformed cells are cultured by means well known in the art (Biochemical Methods in Cell Culture and Virology, Kuchler, R.J., Dowden, Hutchinson and Ross, Inc., (1977)). The
10 expressed polypeptides are isolated from cells grown as suspensions or as monolayers. The latter are recovered by well known mechanical, chemical or enzymatic means.

2. Purification

The proteins produced by recombinant DNA technology may be purified by standard techniques well known to those of skill in the art. Recombinantly produced proteins can be directly
15 expressed or expressed as a fusion protein. The protein is then purified by a combination of cell lysis (e.g., sonication) and affinity chromatography. For fusion products, subsequent digestion of the fusion protein with an appropriate proteolytic enzyme releases the desired polypeptide.

The polypeptides of this invention may be purified to substantial purity by standard techniques well known in the art, including selective precipitation with such substances as ammonium sulfate, column chromatography, immunopurification methods, and others. See, for instance, R.
20 Scopes, Protein Purification: Principles and Practice, Springer-Verlag: New York (1982), incorporated herein by reference. For example, in an embodiment, antibodies may be raised to the proteins of the invention as described herein. Cell membranes are isolated from a cell line expressing the recombinant protein, the protein is extracted from the membranes and immunoprecipitated. The
25 proteins may then be further purified by standard protein chemistry techniques as described above.

3. Antibodies

As mentioned above, antibodies can also be used for the screening of polypeptide products encoded by the polymorphic nucleic acids of the invention. In addition, antibodies are useful
30 in a variety of other contexts in accordance with the present invention. Such antibodies can be utilized for the diagnosis of HH and, in certain applications, targeting of affected tissues.

Thus, in accordance with another aspect of the present invention a kit is provided that is suitable for use in screening and assaying for the presence of polypeptide products encoded by the polymorphic nucleic acids of the invention by an immunoassay through use of an antibody which
35 specifically binds to polypeptide products encoded by the polymorphic nucleic acids of the invention in combination with a reagent for detecting the binding of the antibody to the gene product.

Once hybridoma cell lines are prepared, monoclonal antibodies can be made through conventional techniques of priming mice with pristane and interperitoneally injecting such mice with the hybrid cells to enable harvesting of the monoclonal antibodies from ascites fluid.

In connection with synthetic and semi-synthetic antibodies, such terms are intended to
40 cover antibody fragments, isotype switched antibodies, humanized antibodies (mouse-human, human-

mouse, and the like), hybrids, antibodies having plural specificities, fully synthetic antibody-like molecules, and the like.

This invention also embraces diagnostic kits for detecting DNA or RNA comprising a polymorphism of Table 1 in tissue or blood samples which comprise nucleic acid probes as described herein and instructional material. The kit may also contain additional components such as labeled compounds, as described herein, for identification of duplexed nucleic acids.

The following examples are provided to illustrate the invention but not to limit its scope. Other variants of the invention will be readily apparent to one of ordinary skill in the art and are encompassed by the appended claims.

F. EXPERIMENTAL EXAMPLES

1. Megabase transcript map

In these studies direct selection, exon-trapping, and genomic sample sequencing were used to generate a transcript map of a 1 megabase region approximately 8.5 megabases telomeric to HLA-A in the vicinity of HFE. This region 6p21.3 was flanked by the genetic markers D6S2242 and D6S2241. The starting material for these experiments was a 1 megabase YAC labeled y899g1 and a bacterial clone contig of this region (Feder *et al.* Nature Genetics 13:399-408 (1996)). These techniques and other methods used in the study are outlined below.

a. Direct Selection (DS)

Poly A⁺ RNA from human fetal brain, liver and small intestine (Clontech, Palo Alto, CA) were converted into cDNA using random primers and a Superscript cDNA synthesis kit (Life Technologies, Gaithersburg, MD). The cDNA was digested with Mbo I and ligated to cDNA Mbo I linker-adaptors. Unligated linker-adaptor were removed by passage through cDNA spun columns (Pharmacia, Piscataway, NJ). The 5 ng of each of the ligated cDNAs were amplified using the cDNA Mbo I-S primer (5'-CCTGATGCTCGAGTGAATTC-3'). The amplified products were purified on S-400 spin columns (Pharmacia, Piscataway, NJ), ethanol precipitated and resuspended at 1 mg/ml in TE. Gel-purified yac899g1 (Centre d'Etude du Polymorphisme Humain) was processed as described by Morgan *et al.* (Nucl. Acids Res. 20:5173-5179 (1992)). The cDNAs were mixed in equal molar amounts for a total of 3 mg, and blocked with a mixture of 4 mg Cot-1 DNA (Life Technologies, Gaithersburg, MD), and a cocktail of Sau 3A-digested ribosomal and five different histone DNAs. The blocked cDNAs were hybridized to biotinylated yac899g1 DNA and streptavidin capture was carried out as described by Morgan *et al.* (*ibid.*). After the second round of selection, the eluted cDNAs were amplified using the cDNA Mbo I-S primer which included a (CUA)₄ repeat at the 5' end to facilitate cloning into a version of pSP72 (Promega, Madison, WI) constructed for use with uracil-DNA glycosylase cloning (UDG, Life Technologies, Gaithersburg, MD). Recombinants were transformed in DH5 α , 1000 clones picked into a 96 well format, and clones prepped for DNA sequencing using AGTC boiling 96-well mini-prep system (Advance Genetic Technologies, Gaithersburg, MD).

Four hundred and sixty five clones were sequenced and the resulting data searched by BLAST (Altschul *et al.* J. Mol. Biol. 215:403-410 (1990)). Those clones representing repetitive, bacterial, yeast, mitochondrial and histone sequences were eliminated from future considerations. The remaining sequences were then searched for overlaps and assembled into 108 unique DS contigs.

The number of clones per DS contig varied between 1 to 22 with the length of each contig ranging from 250bp to 850 bp. Small sequence-tag-sites PCR assays were developed for each DS contig and two experiments were carried out concomitantly; mapping each DS contig back to the bacterial clone contig of the region and testing for the presence of each DS contig in cDNA libraries. Overall, 86 or 80% of the DS contigs mapped back to the region and were found to be in cDNA libraries. The number of 80% mapping to the region was probably an underestimate of the fidelity of the direct-selection since PCR assays which cross exon-intron boundaries would be expected to fail or give larger size products, thereby being scored negative.

b. Exon-Trapping

CsCl-purified genomic P1 (Genome Systems), BAC (Research Genetics) and PAC (Genome Systems) DNAs were digested with BamHI, Bgl II, Pst I Sac I and Xho I and 125 ng of each digest ligated into 500 ng pSPL3 (Church *et al.* Nature Genetics 6:98-105 (1994)) (Life Technologies, Gaithersburg, MD) digested with the appropriate restriction enzyme and phosphatased with calf intestinal alkaline phosphatase (USB, Cleveland, OH). One tenth of the ligation was used to transform XL1-Blue MRF' cells (Stratagene, La Jolla, CA) by electroporation. Nine tenths of the electroporation was used to inoculate 10 ml of LB + 100µg/ml of carbenicillin and after overnight growth, DNA was prepared using Qiagen Q-20 tips (Qiagen GmbH, Hilden Germany). The remaining one tenth was plated on LB +100 µg/ml carbenicillin plates to evaluate the efficiency on cloning and to test individual clones for the presence of single inserts. COS-7 cells were seeded overnight at a density of 1.4×10^5 /well in 6 well dishes. One µg of DNA was transfected using 6ml of Lipofect-Ace. Cytoplasmic RNA was isolated 48 hr post-transfection. RT-PCR was carried out as described by Church *et al.* (*ibid*) using commercially available reagents Life Technologies, Gaithersburg, MD). The resulting CUA-tailed PCR fragments for each restriction digested bacterial clone were pooled and UDG cloned into pSP72-U (a derivative of pSP72). The DNA was transformed in DH5α and the cells plated onto nylon membranes. After overnight growth, duplicates were made and the DNA hybridized to ³²P end-labeled oligos designed to detect various background products associated with the pSPL3 vector. One set of filters was hybridized with the following gel-purified oligos in 6X SSC aqueous hybridization solution at 42° C:

vector-vector splicing	5'-CGACCCAGCAACCTGGAGAT-3'
cryptic donor-1021	5'-AGCTCGAGCGGCCGCTGCAG-3'
cryptic donor-1134	5'-AGACCCCAACCCACAAGAAG-3'

The filters were washed twice in 6X SSC, 10 mM sodium pyrophosphate (NaPPi) at 60°C, 30 mins.

After overnight autoradiography, non-hybridizing clones were picked and grown in 250 µl of LB + 100µg/ml of carbenicillin in 96 well mini-rack tubes. The samples were analyzed by PCR using the secondary PCR primers supplied in the kit (Life Technologies, Gaithersburg, MD) and those clones with inserts greater than 200 bp were selected for sequencing.

Ninety-six exon traps per bacterial clone were sequenced for a total of 768 reactions and the resulting data analyzed by BLAST. In addition, each potential exon was searched against a database of the 86 DS contigs to eliminate redundant sequences. PCR assays were developed for

each of the potential exons and they were tested for their presence in cDNA libraries. A total of 48 potential exons remained after these screening steps.

c. Sample Sequencing

A minimal set of bacterial clones chosen to cover y899g1 were prepped with the Qiagen Maxi-Prep system and purified on CsCl. Ten micrograms of DNA from each bacterial clone was sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into electrocompetent DH5 α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well AGCT system and end-sequenced with oligo MAP1 using standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAT. The MAP1 sequences were screened locally with the BLAST algorithm against all available public databases. All sequence identities were catalogued and cross referenced to the DS and exon-trapped databases.

A total of 3794 end sequence reactions were run to achieve the theoretical 1X coverage. Eighty-five percent of these sequences contained non-bacterial non-vector inserts. An additional 1060 end sequence reactions were run from the opposite end of the cloning vector to augment the sequence coverage and to prepare for contigging across selected regions. BLAST searches to all publicly available databases identified 12 histone genes and 74 unique expressed sequence fragments (ESF). The ESF represent a collection of ESTs and other expressed sequence fragments that were selected due to their sequence identity over a significant portion of genomic DNA. The ESF were cross referenced against the DS and exon-trapped databases to eliminate redundancies. 58 unique ESF remained, representing 39 distinct clones. Included in these ESF are 5 sequences homologous to histone genes.

Table 3. EST's found by Sample Sequencing Large Insert Bacterial Clones

Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A+ signal ¹	Genomic poly (A) ₀₈	cDNA Homology
EST03556	pc157c3	na ²	none ³	+	-	cDNA 28
ym33f11	pc157c3	ZNF	na	na	na	
EST04698	pc157c3	na	NSH ⁴	+	-	
EST04812	pc157c3	na	NSH	-	-	
yb89b08	pc157c3	NSH	na	na	na	
yd88g11	pc157c3	na	nsh	+	-	
yj49b01	pc157c3	NSH	na	na	na	
yv81d05	pc157c3	HG17 Human	NSH	+	-	cDNA 30
yg57h09	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21
yq23d08	p196e20	BUTYBOVIN	NSH	+	-	cDNA 21

30	Clone name	Bacterial clone	Homology 5' blastx	Homology 3' blastx	Poly A + signal ¹	Genomic poly (A) ₀₈	cDNA Homology
	yo65f06	p196e20	NSH	na	na	na	cDNA 29
	yv88c09	p196e20	BUTYBOVIN	na	na	na	cDNA 29
	yd17d06	p196e20	NSH	na	na	na	cDNA 23
	ye25g03	p196e20	BUTYBOVIN	NSH	na	na	cDNA 44
5	ys04h08	pc45p21	NSH	NSH	+	-	cDNA 44
	yn01c05	p196e20	BUTYBOVIN	na	na	na	cDNA 32
	YG78F10	PC45P21	NSH	NSH	na	na	
	yh54f11	p196e20	none	NSH	-	-	
	ys05b08	pc157c3	NSH	Alu	-	+	
10	ybl2h11	b132a12	NSH	Histone H3.1	-	-	
	HSC2EE082	b132a12	na	NSH	+	-	
	HUM160h11b	b132a12	none	na	na	na	
	yg04f09	b132b12	Line element	Alu	-	+	
	y37d11	b132a12	NSH	Alu	-	+	
15	ym29g03	b132a12	Histone H2A	NSH	+	-	cDNA 37
	yi77b02	b132a12	NSH	NSH	-	-	cDNA 37
	yh76b05	b132a12	NSH	Alu	-	-	
	yu98e02	b132a12	NSH	Alue	-	+	
	yd72h12	b132a12	Alu	NSH	+	+	
20	yd19d03	pc222k22	Histone H2B.1	NSH	+	-	
	ye98g01	b132a12	NSH	NSH	+	-	cDNA
	yi61f07	b132a12	NSH	NSH	-	+	
	ESTO5340	b3e17	na	Alu	-	+	
	yd35d05	pc222k22	NSH	NSH	-	+	
25	yc52a05	pc75L14	NSH	na	na	na	
	yd84a05	pc75L14	none	none	-	? ⁵	
	yr42a05	pc75L14	NaPi transport	none	+	-	cDNA 22B
	yd83h08	b20h20	NSH	none	+	-	
	ye38c09	b20h20	NSH	Alu	-	+	
30	yp74c05	b20h20	NaPi transport	Alu	? ⁶	na	

Bracketed area is the critical region

1	Signal of ATAAA or ATTAA	4	No Significant Homologies
2	Not available	5	3' splice that is not on contig
35	3 "NONE" reported by blast	6	Poor EST sequence

d. cDNA library screening

Superscript plasmid cDNA libraries, brain, liver and testis, were purchased from Life Technologies, Gaithersburg, MD. Colonies were plated on Hybond N filters (Amersham) using

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standard techniques. Insert probes from DS, exons and EST (I.M.A.G.E. clones; Genome Systems) were all isolated by PCR followed by purification in low-melting point agarose gels (Seakem). The DNAs were labeled in gel using the Prime-it II kit (Stratagene, La Jolla, CA). Small exon probes were labeled using their respective STS PCR primers instead of random primers. Up to 5 different probes were pooled in a hybridization. Filters were hybridized in duplicate using standard techniques. Putative positives were screened by PCR using the probe's STSs to identify clones. Inserts from positive clones were subcloned in pSP72 and sequenced.

e. Northern blots and RT-PCR analysis

Multiple tissue northern blots were purchased from Clontech and hybridized according to the manufacturer's instructions. RT-PCR was carried out on random primed first strand cDNA made from poly A+ RNA (Clontech) using AmpliTaq Gold (Perkin-Elmer). Control reactions were performed on RNA samples processed in the absence of reverse transcriptase to control for genomic DNA contamination.

f. Genomic Sequencing

The MAP1 sequences from the bacterial clones b132a2, 222K22, and 75L14 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. These sequences were also screened with the BLAST algorithm and all novel sequence identities were noted. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently mated with JGM (Strathman *et al.* P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the 3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all bacterial clones to generate complete sequence across the region. The genomic sequence was analyzed with the BLAST nucleotide and protein homology algorithms and the GRAIL 1.2 software to identify novel open reading frames (ORF) for gene finding.

g. Discussion

A compilation of 174 ESF led to the construction of an expressed sequence map of the region that served as the framework for the isolation of full-length cDNAs (Figure 1). (The map shows the subset of ESF that were actually mapped). Probes were developed for 82 best ESFs which appeared to be derived from the coding portions of cDNAs and the appropriate cDNA libraries were screened. This led to the isolation of 19 cDNAs, 17 of which represented novel sequences. 70 of the 174 ESF were included in the cDNAs isolated (40%). 36 probes failed to produce any clones even after repeated screening of several libraries. 51 ESF which were not accounted for in the cDNAs

cloned were not used in any screen. Therefore, it is possible that some additional genes within this 1 megabase region may have escaped detection.

A list of these cDNAs cloned and a comparison of the methods used to find them is presented in Table 4. Direct selection found 14 out of the 18 cDNAs contained within the boundaries of the YAC used in the experiment. Exon trapping found 15 out of the 19 cDNAs contained within the boundaries of the large insert bacterial clone contig. Sample sequencing identified 11 genes that had corresponding ESTs in the public database.

Table 4. Comparison of gene finding methods

	Bacterial Clone	CDNA #	Homology	EST	DS	Exon Trap
	157c	28	zinc finger	EST03556	2	1
	157c3	30	nonhistone	yv81d05	1	none
				yvh07a10		
	157c3	46	ORF	yd88g11	1	
15	157c3	20	BT	none	none	3
	p18696	21	BTF1	yn01G5	4	5
				yg23d08		
				yg57h09		
				yu15h03		
	45p21	32	BTF2	yg78f10	7	3
				yn01c05		
	45p21	29	BTF3	ye25g03	2	9
				yo65f06		
	45p21	23	BTF4	yd17d06	4	6
20	45p21	44	BTF5	ys04h08	2	4
	3e17	41	genomic?	none	none	1
	132a2	43	genomic?	none	none	3
	132a2	36	genomic?	none	1	none
	132a2	37	histone 2A	ym29g03	3	none
				yh87a03		
25	75114	24	MHC class 1	ye98g01	1	2
	132a2	39	genomic?	none	none	4
	132a2	27	Ro/SSA	none	3	4
	132a2	22B	NPT1-like	yr42a05	1	7
				yf09g06		
	20h20	22E	NPT1-like	none	2	5
30	20h20	NPT1	NPT1	yp74c05	N/A	3

As a final approach, a tiling path with overlapping end sequences from the sample sequence database was generated. Each 3 kb clone within the path was shotgun-sequenced using transposable elements as platforms for dual end sequencing. These individual clones were assembled in conjunction with the end sequences from all bacterial clones in the region. The resulting sequence (Figure 2) was analyzed systematically with BLAST homology searches and the Grail 1.2 program to identify novel open reading frames (ORF) and other gene-like structures. The BLAST homology searches did not produce any probes that had not already been identified by sample sequencing. Grail predicted exons for all the genes in the region, but was only able to assemble the histones into any representative form. A detailed analysis of BLAST homology searches to protein databases identified an enticing homology to a zinc alpha 2 glycoprotein approximately 25 kb upstream of HFE, but the lack of a substantial ORF and the presence of a stop codon suggested that it was a pseudogene. Figure 2 shows the positions, the exon and intron structures, and the relative orientation of transcription of novel genes within this region. Also shown are the positions and transcriptional orientations of the histone genes. A total of 12 histone genes were identified in this study.

In an effort to account for the ESTs that did not associate with the characterized genes in the 250 kb region, the genomic sequence around the putative 3' ends were examined for polyadenylation signals to determine whether certain EST sequences may have originated from genomic DNA contamination in the normalized cDNA libraries used in EST generation. The positions of the 14 ESTs found in this region are indicated in Figure 2 to show those associated with the cDNAs cloned and those which did not associate with genomic DNA of obvious coding potential. Four ESTs corresponded to 3 of the 4 cDNAs cloned from the region (Table 2). One EST encoded a histone H2B.1 gene and another was a repetitive element. Of the remaining 8, 6 EST clones were used as probes of cDNA libraries with negative results. Those sequences representing putative 3' ends of cDNA were searched for the presence of poly (A)+ addition signals. Five of the 13 ESTs which had 3' end sequence, had the sequence ATAAA or ATTAA. Five of the remaining 8 ESTs that did not have a poly (A)+ addition signal had genomic encoded stretches of poly (A) near the end of EST sequence and, therefore, may have been created by oligo d(T) priming of contaminating genomic DNA. This analysis was expanded to include all ESTs in the large-insert bacterial contigs with definitive 3' ends. Of the remaining 26, 15 had 3' end sequence and, of these, 8 had poly (A)+ addition signals. Five of these 8 ESTs were associated with the cloned cDNAs. Of the remaining 7 which did not have poly (A)+ addition signals, 4 had genomic encoded stretches of poly (A).

i. Butyrophilin gene family

The human homolog of the bovine butyrophilin gene (BT) was cloned and mapped to approximately 480 kb centromeric to HFE (Figure 1). BT is a transmembrane protein of unknown function which constitutes 40% of the total protein associated with the fat globule of bovine milk (Jack *et al.* J. Biol. Chem. 265:14481-14486 (1990)). A human homolog of BT has recently been cloned by Tayloer *et al.* (Biochem Biophys Acta 1306:1-4 (1996)). The results in this study indicated that BT is a member of a gene family with at least five other members of the family residing in this region (Figure 1). A comparison of these proteins is shown in Figure 3. The proteins were aligned based on their descending order of relatedness and to minimized gaps in the sequence. Each of the five proteins

display varying degrees of homology to BT. BTF1 (cDNA 21), BTF2 (cDNA 32), BTF5 (cDNA 44), and BTF3 (cDNA 29) are 45%, 48%, 46%, and 49%, identical to BT, whereas BTF4 (cDNA 23), which is more similar to BTF3 (cDNA 29), is only 26% identical. This low degree of identity to BT is largely due to a truncation at the carboxyl terminus of the protein. The BTF family falls into two groups: BTF1 and 2 which are more related to each other than to BT or the other BTF members, and BTF5, 3 and 4, which appear to have a common evolutionary origin. The order of these genes on the chromosome suggests that the BT gene has duplicated two times, giving rise to BTF1 and BTF5. Subsequently, it appears likely these two genes experienced further duplication events to give rise to the other members in their groups.

The three major components of BT, the B-G immunoglobulin superfamily domain (containing the V consensus sequence) (Miller *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:4377-4381 (1991)), the transmembrane region, and the B30-2 exon are found in all of these proteins (with the exception of BTF4 (cDNA 23) which lacks the B30-2 exon by virtue of the carboxyl terminal truncation). The exon B30-2 is a previously noted feature of the MHC class 1 region found approximately 200 kb centromeric to the HLA-A gene (Vernet *et al.*, J. Mol. Evol. 37:600-612 (1993)). In addition this exon is found in several genes of diverse function telomeric to HLA-A namely MOG (approximately 200 kb) and RFP (approximately 1 megabase) (Amadou *et al.* Genomics 26:9-20 (1995)).

The levels of the BTF mRNA were analyzed by northern blot analysis (Figure 4A). The expression of the BTF genes fell into two patterns. BTF1 and BTF2 were expressed as a single major transcript of 2.9 kb and one minor transcript of 5.0 kb. These genes were expressed at high levels in all the tissues tested with the exception of the kidney where the expression level was less. The two genes are 90% identical at the DNA sequence level, therefore, it is possible that the signal observed on the northern blots was the result of cross-hybridization and only one of the two genes was actually expressed. To address this possibility RT-PCR experiments were carried out on a panel of different tissues in order to detect possible tissue dependent expression that would suggest that both genes are expressed. Identical, and thus equivocal, results were obtained with both BTF1 and BTF2 amplification (Figure 4B).

The second group of genes, BTF3-5, are expressed as three (BTF5) (Figure 4A) and two (BTF3 and 4) transcripts ranging from 4.0 to 3.3 kb. BTF5 is expressed at moderate levels in all tissues tested with the exception of the kidney where the expression level is less. RT-PCR experiments showed that mRNA from the BTF5 gene can be found in all tissues tested, including the kidney (Figure 4B). Identical results were obtained with primers from the other genes of this group (data not shown). These genes are also 90% identical to each other at the DNA sequence level (but only 58% identical to BTF1 and 2), hence like BTF1 and BTF2, cross-hybridization could account for the similarity in size and patterns on the northern blots and RT-PCR. This might be particularly true for BTF4 which lacks the B30-2 exon but still hybridizes to larger size transcripts like BTF5 and BTF3.

ii. A gene with similarity to 52 kD Ro/SSA auto-antigen

Located approximately 120 kb telomeric to the HFE gene is a gene, RoRet, that has 58% amino acid similarity to the 52 kD Ro/SSA protein, an auto-antigen of unknown function that is frequently recognized by antibodies in patients with systemic lupus and Sjogren's syndrome (Anderson

et al. Lancet 2:456-560 (1961); Clark *et al. J. Immunol.* 102:117-122 (1969)) (Figures 1 and 2).

Alignment of the predicted amino acid sequence of this cDNA with that of 52 kD Ro/SSA indicated two features associated with the 52 kD Ro/SSA protein: a putative DNA binding cysteine rich motif (C-X-(I,V)-C-X(11-30)-C-X-H-X-(F,I,L)-C-X(2)-C-(I,L,M)-X(10-18)-C-P-X-C) found at the N terminus (Freemont *et al. Cell* 64: 483-484 (1991)) and the B30-2 exon found near the carboxyl terminus, are both conserved in RoRet (Figure 5). Northern blot analysis indicated the RoRet gene was expressed as two major transcripts of 2.8 and 2.2 kb and two minor transcripts of 7.1 and 4.4 kb in all of the tissues on the blot at levels reflective of the RNA amounts as determined by β -actin probing (Figure 6A). Using RT-PCR, expression can also be detected in small intestine, kidney liver, and spleen (Figure 6B).

iii. Two genes with homology to a sodium phosphate transporter

A cDNA for a sodium phosphate transport protein (NPT1) was previously cloned and mapped to 6p21.3 using a somatic cell hybrid panel (Chong *et al. Genomics* 18:355-359 (1993)). NPT1 maps 320 kb telomeric to the HFE gene (Figures 1 and 2). Two additional cDNAs were cloned which show appreciable homology to NPT1 (Figure 5). These genes, NPT3 and NPT4, mapped 1.5 megabases and 1.3 megabases centromeric to the NPT1 gene (Figure 1). Like NPT1, the gene products of NPT3 and NPT4 were extremely hydrophobic, which may reflect a membrane location. Both proteins gave hydrophilicity profiles which were indistinguishable from NPT1 in this study (data not shown). Northern blot analysis indicated that the two genes have different patterns of expression (Figure 6C). NPT3 was expressed at high levels as a 7.2 kb transcript predominately in muscle and heart. Lesser amount of the mRNA were also found in brain, placenta, lung, liver and pancreas. RT-PCR analysis indicated that expression of the proper size PCR fragment for NPT3 was clearly absent in fetal brain, bone marrow and small intestine (Figure 6D). A smaller size fragment was detectable in all tissues with the exception of the liver, which may represent evidence for alternative splicing. Although expression was apparently absent from the kidney by northern blot analysis, it was detectable by RT-PCR. Expression was also noted in the mammary gland, spleen and testis. NPT4, on the other hand, was expressed only in the liver and the kidney as a smear of transcripts approximately 2.6 - 1.7 kb (Figure 6C). RT-PCR confirmed these results, although a small amount of the proper size PCR fragment was also found in the small intestine and testis (Figure 6D). Other tissues showed amplification, but the fragments were of larger and smaller size than that produced by the cDNA 22E positive control. Hence, these two genes which apparently have the structural characteristics of a sodium phosphate transporter, appeared to be under the control of different regulatory mechanism that lead to differential patterns of expression.

2. Sequencing of 235 kb from a Homozygous Ancestral (Affected) Individual

In these studies the entire genomic sequence was determined from an HH affected individual for a region corresponding to a 235,033 bp region surrounding the HFE gene between the flanking markers D6S2238 and D6S2241. The sequence was derived from a human lymphoblastoid cell line, HC14, that is homozygous for the ancestral HH mutation and region. The sequence from the ancestral chromosome (Figure 9) was compared to the sequence of the region in an unaffected individual (Figure 8) disclosed in copending U.S.S.N. 08/724,394 to identify polymorphic sites. A

subset of the polymorphic alleles so defined were further studied to determine their frequency in a collection of random individuals.

The cell line HC14 was deposited with the ATCC on June 25, 1997, and is designated ATCC CRL-12371.

5 a. Cosmid Library Screening

The strategy and methodology for sequencing the genomic DNA for the affected individual was essentially as described in copending U.S.S.N. 08/724,394, hereby incorporated by reference in its entirety. Basically, a cosmid library was constructed using high molecular weight DNA from HC14 cells. The library was constructed in the supercos vector (Stratagene, La Jolla, CA). Colonies were replicated onto Biotrans nylon filters (ICN) using standard techniques. Probes from genomic subclones used in the generation of the sequence of the unaffected sequence disclosed in 08/724,394 were isolated by gel electrophoresis and electroporation. Subclones were chosen at a spacing of approximately 20 kb throughout the 235 kb region. The DNA was labeled by incorporation of ³²P dCTP by the random primer labeling approach. Positively hybridizing clones were isolated to purity by a secondary screening step. Cosmid insert ends were sequenced to determine whether full coverage had been obtained, and which clones formed a minimal path of cosmids through the 235 kb region.

 b. Sample Sequencing

A minimal set of cosmid clones chosen to cover the 235 kb region were prepped with the Qiagen Maxi-Prep system. Ten micrograms of DNA from each cosmid preparation were sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 DNA polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into electrocompetent DH5α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well Qiagen REAL, and the 5' to 3' DNA Prep Kit, and AGCT end-sequenced with oligo MAP1 using standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAAT.

 c. Genomic Sequencing

The MAP1 sequences from the cosmid clones HC182, HC187, HC189, HC195, HC199, HC200, HC201, HC206, HC207, and HC212 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently mated with JGM (Strathman et al. P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the

3 kb clones within the tiling path were streaked on LB-carbenicillin-kanamycin plates and a random selection of 12 colonies per 3 kb clone was prepped in the AGCT system. The oligos -21: CTGTAAACGACGGCCAGTC, and REV: GCAGGAAACAGCTATGACC were used to sequence off both ends of the transposon. Each 3 kb clone was assembled in conjunction with the end sequence information from all cosmid clones in the region.

In some regions, the coverage of the genomic sequence by cosmids was incomplete. Any gaps in the sequence were filled by using standard PCR techniques to amplify genomic DNA in those regions and standard ABI dye terminator chemistry to sequence the amplification products.

d. Identification of Polymorphic Sites

The assembled sequence of the cosmid clones in connection with the PCR amplified genomic DNA was compared to the genomic sequence of the unaffected individual using the FASTA algorithm. Numeric values were assigned to the sequenced regions of 1 to 235,303, wherein base 1 refers to the first C in the CA repeat of D6S2238 and base 235,303 is the last T in the GT repeat of D6S2241 of the unaffected sequence (Figure 8). Table 1 lists the differences between the two compared sequences. Note that previously disclosed (Feder et al., Nature Genetics 13:399-408 (1996)) polymorphic sites D6S2238 (base 1), D6S2241 (base 235,032), 24d1 (base 41316), and D6S2239 (base 84841) are not included in the list of new polymorphisms, although they are provided for reference in a footnote to the Table and were observed in the ancestral sequence. In the Table, a single base change such as C-T refers to a C in the unaffected sequence at the indicated base position that occurred as a T in the corresponding position in the affected sequence. Similarly, an insertion of one or more bases, such as TTT in the affected sequence, is represented as "TTT INS" between the indicated bases of the unaffected sequence. A deletion of one or more bases occurring in the affected sequence, such as AAA DEL, is represented as the deletion of the indicated bases in the unaffected sequence.

e. Characterization of Rare Polymorphisms

In this study about 100 of the polymorphisms of Table 1 were arbitrarily chosen for further characterization. Allele frequencies in the general population were estimated by OLA analysis using a population of random DNAs (the "CEPH" collection, J. Dausset et al., Genomics 6(3):575-577 (1990)). These results are provided in Table 2.

One single base pair difference, occurring at base 35983 and designated C182.1G7T/C (an A to G change on the opposite strand) was present in the ancestral chromosome and rare in the random DNAs. This change occurred in a noncoding region of the hemochromatosis gene near exon 7 approximately 5.3 kb from the 24d1 (Cys282Tyr) mutation. OLA was used to genotype 90 hemochromatosis patients for the C182.1G7T/C base pair change. The frequency for C occurring at this position in the patients was 79.4% as compared to 5% in the random DNAs. Eighty-five of the 90 patients assayed contained identical 24d1 and C182.1G7T/C genotypes. Four of the remaining 5 patients were homozygous at 24d1 and heterozygous at C182.1G7T/C; one was heterozygous at 24d1 and homozygous at C182.1G7T/C. The primers used for this analysis were as follows.

PCR primers for detection:

182.1G7.F 5'-GCATCAGCGATTAACCTTCTAC -3'

182.1G7.R 5'-TTGCATTGTGGTGAAATCAGGG -3'

For the detection assay, the biotinylated primers used were as follows.

182.1G7.C 5' (b)CTGAGTAATTGTTTAAGGTGC -3'

182.1G7.T 5' (b)CTGAGTAATTGTTTAAGGTGT -3'

The phosphorylated digoxigenin-labeled primer used was:

182.1G7.D 5' (p)AGAAGAGATAGATATGGTGG -3'

A further rare single base pair change was detected at 61,465bp. The inheritance pattern of this polymorphism, C195.1H5C/T (a G to A change on the opposite strand), is identical to that of 24d1. The frequency of T occurring at that position (C195.1H5T) observed in a set of 76 patients was 78.5% as compared to 5% in random individuals.

PCR primers for detection:

1951H5.3F 5'-GAATGTGACCGTCCCATGAG-3'

1951H5.3R 5'-CAACTGAATATGCAGAAAAAAGTACACC-3'

For the detection assay, the biotinylated primers used were:

1951H5.3.4 5' (b)AGTAGCTGGGACTCACGGTGT-3'

1957H5.3.5 5' (b)AGTAGCTGGGACTCACGGTGC-3'

The phosphorylated digoxigenin-labeled primer used was:

1951H5.3.6 5' (p)GCGCCACCACTCCAGCTCAT-3'

These rare alleles are thus preferred surrogate markers for 24d1 and are especially useful in screening assays for the likely presence of 24d1 and/or 24d2.

All publications, patents, and patent applications cited herein are hereby incorporated by reference in their entirety.

WHAT IS CLAIMED IS:

- 1 1. An oligonucleotide comprising at least 8 to about 100 consecutive bases from the
2 sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100
3 consecutive bases includes at least one polymorphic site of Table 1.
- 1 2. The oligonucleotide of claim 1, wherein the polymorphic site is selected from the
2 group consisting of base 35983 or base 61465.
- 1 3. An oligonucleotide pair selected from the sequence of Figure 9 or its complement for
2 amplification of a polymorphic site of Table 1.
- 1 4. An isolated nucleic acid molecule comprising about 100 consecutive bases to about
2 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at
3 least one polymorphic site of Table 1.
- 1 5. The isolated nucleic acid molecule of claim 4, wherein the polymorphic site is selected
2 from the group consisting of base 35983 or base 61465.
- 1 6. The isolated nucleic acid molecule of claim 4, wherein the nucleic acid is selected
2 from the group consisting of cDNA, RNA, or genomic DNA.
- 1 7. A polypeptide encoded by the nucleic acid molecule of claim 4.
- 1 8. An antibody which specifically recognizes the polypeptide of claim 7.
- 1 9. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a haplotype of Table 1,
5 wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the
6 HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the
7 likely presence of the HFE gene mutation in the genome of the individual.
- 1 10. The method of claim 9, wherein the method further comprises assessing the RNA or
2 DNA for the presence of at least one of the polymorphisms 24d1, 24d2, HHP-1, HHP-19, or HHP-29;
3 or microsatellite repeat alleles 19D9:205, 18B4:235, 1A2:239, 1E4:271, 24E2:245, 2B8:206, 3321-
4 1:98, 4073-1:182, 4440-1:180, 4440-2:139, 731-1:177, 5091-1:148, 3216-1:221, 4072-2:170, 950-
5 1:142, 950-2:164, 950-3:165, 950-4:128, 950-6:151, 950-8:137, 63-1:151, 63-2:113, 63-3:169, 65-

1:206, 65-2:159, 68-1:167, 241-5:108, 241-29:113, 373-8:151, 373-29:113, D6S258:199, D6S265:122, D6S105:124, D6S306:238, D6S464:206, or D6S1001:180.

11. The method of claim 9, wherein the haplotype comprises at least two polymorphic sites of Table 1.

12. The method of claim 11, wherein one of the at least two polymorphic sites of Table 1 is at base 35983 or 61465.

13. The method of claim 11, wherein the haplotype comprises at least three polymorphic sites of Table 1.

14. A method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising:
providing DNA or RNA from the individual; and
assessing the DNA or RNA for the presence or absence of a genotype defined by a polymorphic allele of Table 1,
wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

15. The method of claim 15, wherein the polymorphic allele occurs in less than about 50% of a random population of individuals.

16. The method of claim 15, wherein the polymorphic allele occurs in less than about 25% of a random population of individuals.

17. The method of claim 15, wherein the polymorphic allele occurs in less than about 5% of a random population of individuals.

18. The method of claim 15, wherein the genotype is C182.1G7C or C195.1H5T.

19. A kit comprising one or more oligonucleotides of claim 1.

20. A kit comprising at least one oligonucleotide pair of claim 3.

21. A culture of lymphoblastoid cells having the designation ATCC CRL-12371.

1 22. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF1.

1 23. The isolated nucleic acid sequence of claim 23, wherein the nucleic acid is cDNA.

1 24. The polypeptide encoded by the isolated nucleic acid sequence of claim 23.

1 25. A vector comprising the nucleic acid sequence of claim 23.

1 26. A host cell stably transfected with the nucleic acid sequence of claim 23.

1 27. An antibody that is specifically immunoreactive with the polypeptide of claim 24.

1 28. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF2.

1 29. The isolated nucleic acid sequence of claim 28, wherein the nucleic acid is cDNA.

1 30. The polypeptide encoded by the isolated nucleic acid sequence of claim 28.

1 31. A vector comprising the nucleic acid sequence of claim 28.

1 32. A host cell stably transfected with the nucleic acid sequence of claim 28.

1 33. An antibody that is specifically immunoreactive with the polypeptide of claim 30.

1 34. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF3.

1 35. The isolated nucleic acid sequence of claim 34, wherein the nucleic acid is cDNA.

1 36. The polypeptide encoded by the isolated nucleic acid sequence of claim 34.

1 37. A vector comprising the nucleic acid sequence of claim 34.

1 38. A host cell stably transfected with the nucleic acid sequence of claim 34.

1 39. An antibody that is specifically immunoreactive with the polypeptide of claim 36.

- 1 40. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF4.
- 1 41. The isolated nucleic acid sequence of claim 40, wherein the nucleic acid is cDNA.
- 1 42. The polypeptide encoded by the isolated nucleic acid sequence of claim 40.
- 1 43. A vector comprising the nucleic acid sequence of claim 40.
- 1 44. A host cell stably transfected with the nucleic acid sequence of claim 40.
- 1 45. An antibody that is specifically immunoreactive with the polypeptide of claim 42.
- 1 46. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 BTF5.
- 1 47. The isolated nucleic acid sequence of claim 46, wherein the nucleic acid is cDNA.
- 1 48. The polypeptide encoded by the isolated nucleic acid sequence of claim 46.
- 1 49. A vector comprising the nucleic acid sequence of claim 46.
- 1 50. A host cell stably transfected with the nucleic acid sequence of claim 46.
- 1 51. An antibody that is specifically immunoreactive with the polypeptide of claim 48.
- 1 52. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-3.
- 1 53. The isolated nucleic acid sequence of claim 52, wherein the nucleic acid is cDNA.
- 1 54. The polypeptide encoded by the isolated nucleic acid sequence of claim 52.
- 1 55. A vector comprising the nucleic acid sequence of claim 52.
- 1 56. A host cell stably transfected with the nucleic acid sequence of claim 52.
- 1 57. An antibody that is specifically immunoreactive with the polypeptide of claim 54.

1 58. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 NTP-4.

1 59. The isolated nucleic acid sequence of claim 58, wherein the nucleic acid is cDNA.

1 60. The polypeptide encoded by the isolated nucleic acid sequence of claim 58.

1 61. A vector comprising the nucleic acid sequence of claim 58.

1 62. A host cell stably transfected with the nucleic acid sequence of claim 58.

1 63. An antibody that is specifically immunoreactive with the polypeptide of claim 60.

1 64. An isolated nucleic acid sequence comprising a sequence substantially identical to
2 RoRet.

1 65. The isolated nucleic acid sequence of claim 64, wherein the nucleic acid is cDNA.

1 66. The polypeptide encoded by the isolated nucleic acid sequence of claim 64.

1 67. A vector comprising the nucleic acid sequence of claim 64.

1 68. A host cell stably transfected with the nucleic acid sequence of claim 64.

1 69. An antibody that is specifically immunoreactive with the polypeptide of claim 66.

1 70. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF1.

1 71. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF2.

1 72. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF3.

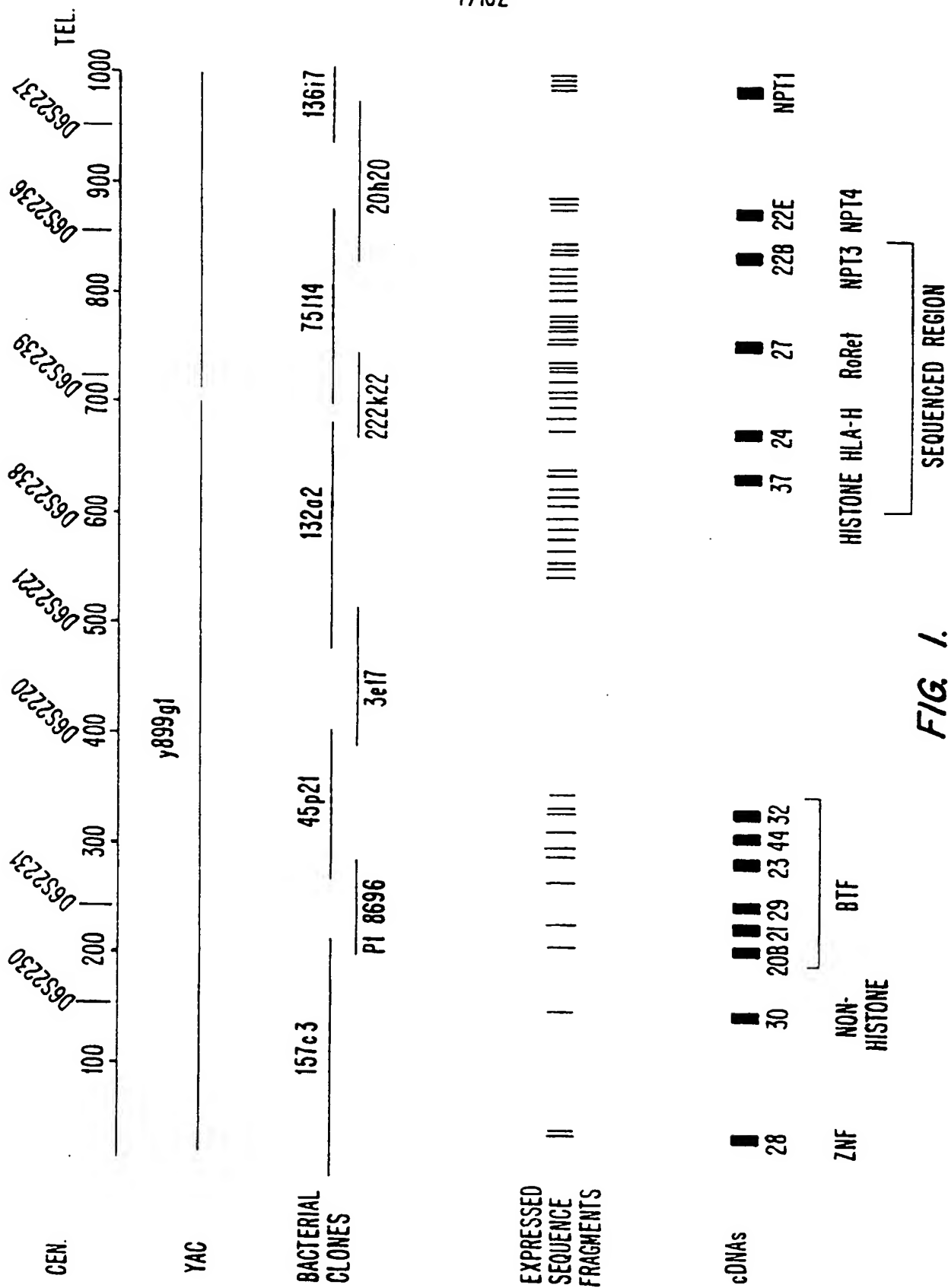
1 73. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF4.

1 74. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of BTF5.

1 75. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT3.

1 76. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT4.

1 77. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of RoRet.



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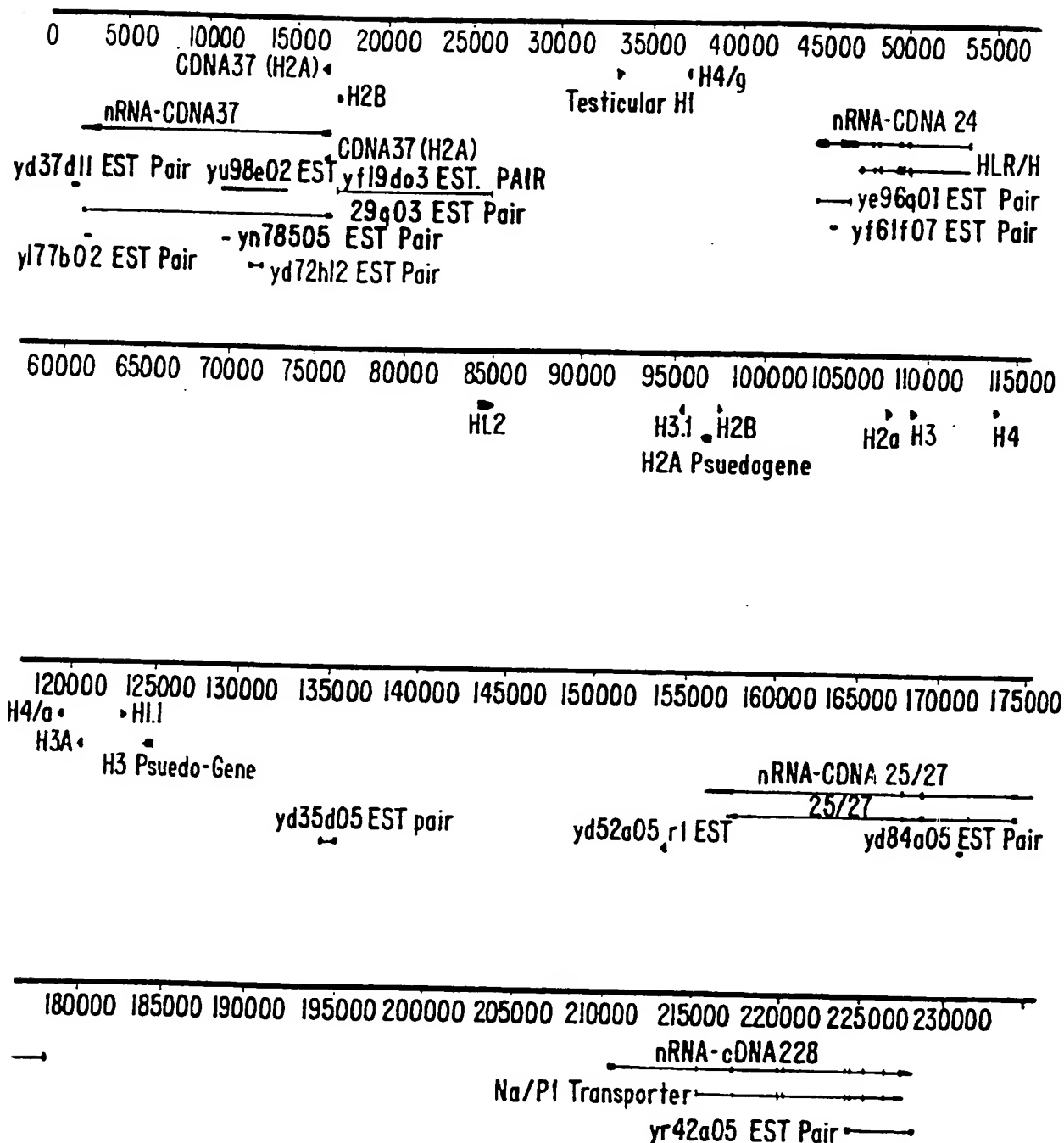


FIG. 2.

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BT      --MAVFPSSGLPRCL---LTLILLQLPKLDSAPFDVIGPPEPILAVVGEDAELPCRLSPN
BTF1    MESAAALHFSRPAS----LLLLLLSLCALVSAQFIVVGPTDPI LATVGENTTLRCHLSPE
BTF2    MEPAAALHFSLPASLLLLLLLLLLLLSLCALVSAQFTVVG PANPILAMVGENTTLRCHLSPE
BTF5    MKMASFLAFLLLNFR---VCLLLLQLLMPHSAQFSVLGPGSGPILAMVGEDADLPCHLFPT
BTF3    MKMASSLAFLLLNFH---VSLFLVQLLTPCSAQFSVLGPGSGPILAMVGEDADLPCHLFPT
BTF4    MKMASSLAFLLLNFH---VSLLLVQLLTPCSAQFSVLGPGSGPILAMVGEDADLPCHLFPT
      *      * * * * *      * * * * *      * * * * *
BT      ASAEHLELRWFRKKVSPAVLVHRDGREQAEQMPEYRGRATLVQDGI AKGRVALRIRGVR
BTF1    KNAEDMEVRWFRSQFS PAVFVYKGGRETEREEQMEEYRGRTTFVSKDISRGSVALVIHNIT
BTF2    KNAEDMEVRWFRSQFS PAVFVYKGGRETEREEQMEEYRGRTTFVSKDINRGSVALVIHNIT
BTF5    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF3    MSAETMELRWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
BTF4    MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVT
      * * * * *      * * * * *      * * * * *      * * * * *
BT      VSDDGEYTCFFREDGSYEEALVHLKVAALGSDPHISMQVQENGEICLECTSVGWYPEPQV
BTF1    AQENGTYRCYFQEGRSYDEAILHLVVAGLGSKPLISMRGHEDGGIRLECISRGWYPKPLT
BTF2    AQENGIYRCYFQEGRSYDEAILRLVVAGLGSKPLIEIKAQEDGSIWLECISGGWYPEPLT
BTF5    ASDSGKYL CYFQDGD FYEKALVELKVAALGSDLHVDVKGYKDGGIHLECRSTGWYPQPQI
BTF3    ASDSGKYL CYFQDGD FYEKALVELKVAALGSDLHIEVKGYEDGGIHLECRSTGWYPQPQI
BTF4    ASDSGKYL CYFQDGD FYEKALVELKVAALGSLNHLVEVKGYEDGGIHLECRSTGWYPQPQI
      * * * * *      * * * * *      * * * * *      * * * * *
BT      QWRTSKGEKFPSTSES RNPDEEGLFTVAASVIIRDSTSTKNVSCYIQNLLLQGEKKVEISI
BTF1    VWRDPYGGVAPALKEVSMPDADGLFMVTTAVIIRDKSVRNMSCSINNTLLGQKKESVIFI
BTF2    VWRDPYGEVVPALKEVSIADADGLFMVTTAVIIRDKYVRNVSCSVNNTLLGQKETVIFI
BTF5    QWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSCITIRSSLLGLEKTASISI
BTF3    KWSDTKGENIPAVEAPVVADGVGLYAVAASVIMRGSSGGVSCIIRNSLLGLEKTASISI
BTF4    QWSNAKGENIPAVEAPVVADGVGLYAVAASVIMRGSSGEGVSCIIRNSLLGLEKTASISI
      *      *      *      *      *      *      *      *      *      *
BT      PASSLPRLTPWIVAVAV-----ILMVLGLLTIGSIFFTWRLYNER-----
BTF1    PESFMPSPVSPCAVALP-----IIVVILMPIAVCIYWINKLQEKKILSGEK
BTF2    PESFMPSPVSPCAVALP-----IIVVILMPIAVCIYWINKLQEKKILSGEK
BTF5    ADPFFRSAPWIAALAG-----TLPVLLLLLGGAGYFLWQQQEEKKTQFRKK
BTF3    ADPFFRSAPWIAALAG-----TLPI SLLLLLAGASYFLWRQQKEKIALSRET
BTF4    ADPFFRSAPWIAALAG-----TLPI SLLLLLAGASYFLWRQQKEITALSSEI
      *      *      *      *      *
BT      PRER-----RNEFS-----SKERLLEELKWKKATLHA-----
BTF1    EFERETREIALKELEKERVQKEELQVKEKLQEELRWRTFLHA-----
BTF2    KVEQE-----EKE-----IAQQLQEELRWRTFLHA-----
BTF5    KREQELREMAWSTMKQEQS-----TRVKLLEELRWRSIQYASRGERHSAYNEWKKALF
BTF3    EREREMKEMGYAATEQEIS-----LREKLQEELKWRKIQYMARGEKSLAYHEWKMALF
BTF4    ESEQEMKEMGYAATEREIS-----LRESLQEELKRKKSST-----
      *      *      *      *      *
BT      --VDVTLDPDPTAHPLFLYEDSKSVRLSDSRQK---LPEKTERFDSWPCVLGRETFTSGR
BTF1    --VDVLDPDPTAHPLFLSEDRRSVRRCFPRHLGESVPDNPERFDSQPCVLGRESFASGK
BTF2    --ADVLDPDPTAHPELFLSEDRRSVRRGPYRQR---VPDNPERFDSQPCVLGWESFASGK
BTF5    KPADVILDPKTANPILLVSEDQRSVQRAKEPQD---LPDNPERFNWHYCVLGCESFISGR
BTF3    KPADVILDPDTANAILLVSEDQRSVQRAEPRD---LPDNPERFEWRYCVLGCENFTSGR
BTF4    -----
BT      HYWEVEVGDRTDWAIGVCRENVMKK-GFDPMTPENGFWAVELY-GNGYWALTPLRTPPLPL
BTF1    HYWEVEVENVIEWTVGVC RDSVERK-GEVLLIPQNGFWTLEMH-KGQYRAVSSPDRIPLPL
BTF2    HYWEVEVENVMVWTVGVC RDSVERK-GEVLLIPQNGFWTLEMF-GNQYRALSSPERILPL
BTF5    HYWEVEVGDRKEWHIGVCSKNVQRK-GWVKMTPENGFWTMGLTDGNKYRTLTEPRTNLKL
BTF3    HYWEVEVGDRKEWHIGVCSKNVERKKGWVKMTPENGYWTMGLTDGNKYRALTEPRTNLKL
BTF4    -----

```

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BT	AGPPRRVGIFLDYESGDISFYNMNDGSDIYTFSNVTFSGPLRPFCLWSSGKKPLTICPI
BTF1	KESLCRVGVFLDYEAGDVSFYNMRRDRSHIYTCPRSAFSVPVRPFFRLGC-EDSPIFICPA
BTF2	KESLCRVGVFLDYEAGDVSFYNMRRDRSHIYTCPRSAFTVPVRPFFRLGS-DDSPIFICPA
BTF5	PKPPKKVGVFLDYETGDISFYNAVDGSHIHTFLDVSFSEALYPVFRILTLEPTALSICPA
BTF3	PEPPRKVGIFLDYETGEISFYNATDGSHIYTFPHASFSEPLYPVFRILTLEPTALTICPI
BTF4	-----

BT	ADGPERVTVIANAQDLSKEIPLSPMGEESAPRDADTLHSLIPTQPSQGAP-----
BTF1	LTGANGVTVP-----EEGLTLHRVGTHQSL-----
BTF2	LTGASGVMVP-----EEGLKLHRVGTHQSL-----
BTF5	-----
BTF3	PKEVESSPDLDLVPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNH
BTF4	-----

BT	-----
BTF1	-----
BTF2	-----
BTF5	-----
BTF3	KLQARTEALY
BTF4	-----

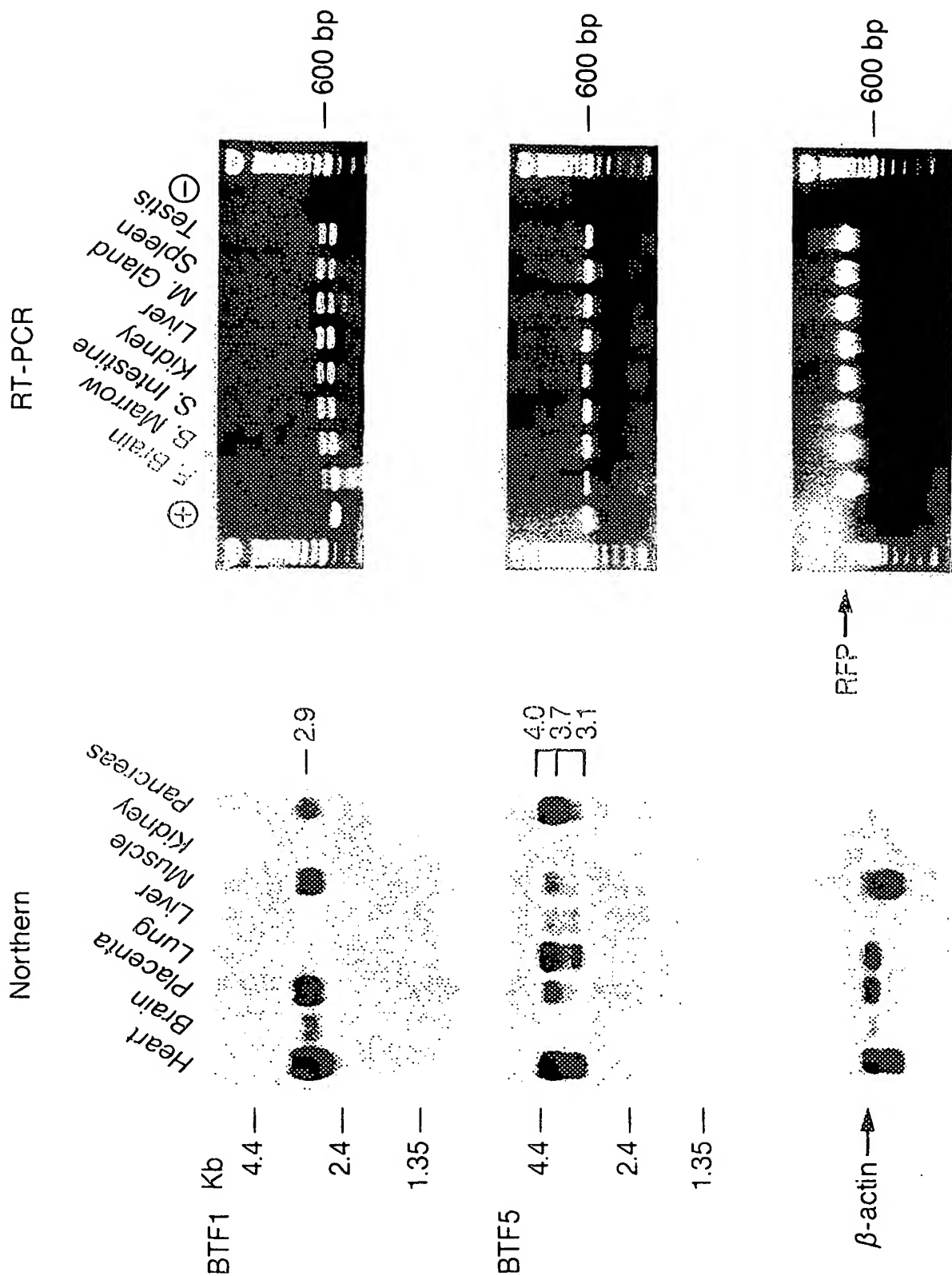


FIG. 4B.

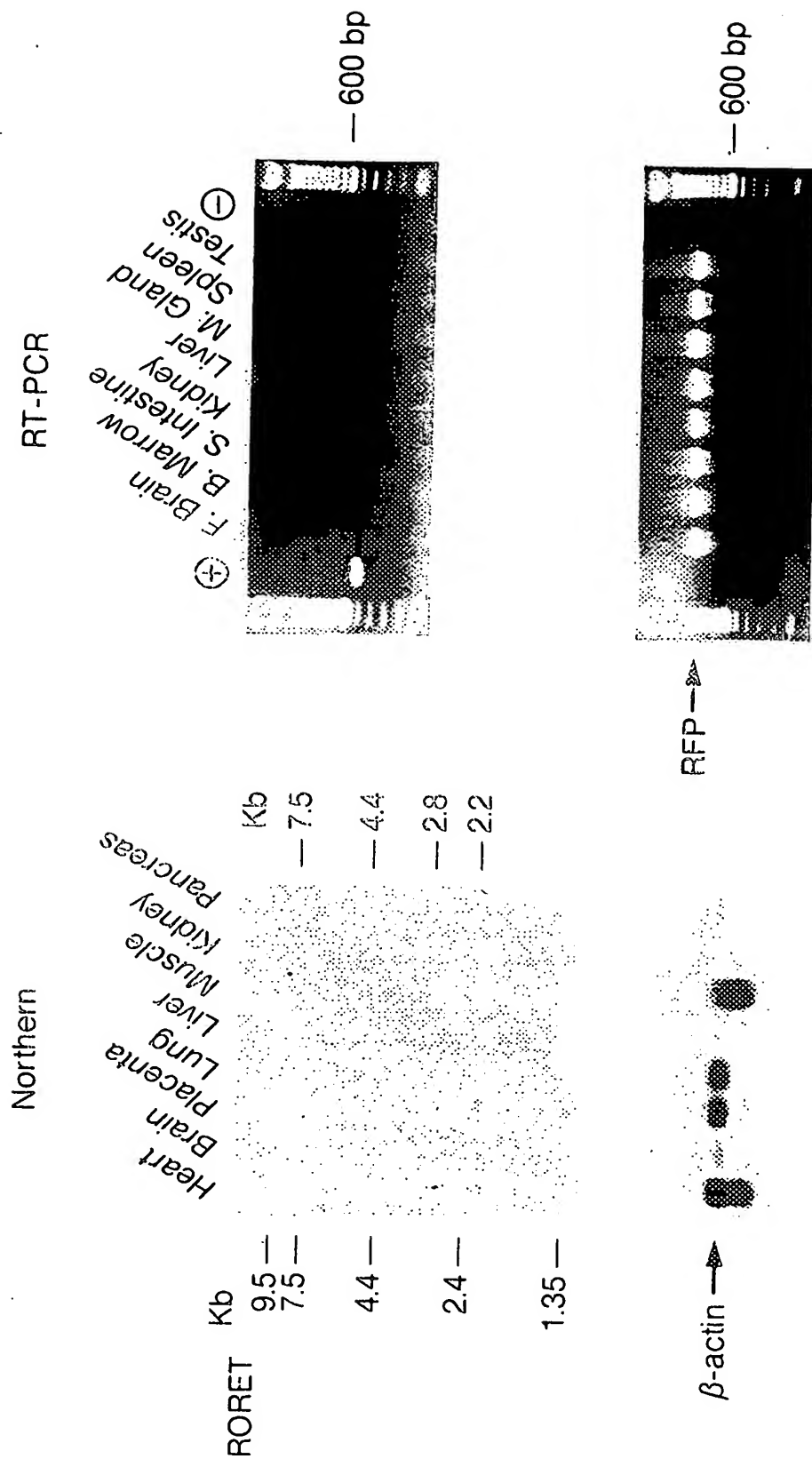
FIG. 4A.

		CYSTEINE-RICH DOMAIN																			
52 kD	Ro	MASAARLTMMWEEVTCPICLDPFVEPV	IECGHSFCQECISQVGKGGG	-----VCPVCRQRFLLKNLRPNRQLAMMVN																	
RoRet		MASTTSTKKMMEEATCSICLSLMTNPVS	INCGHSYCHLCITDFFKNPSQKQLRQET	FCPCQCRAPFHMDSLRPNKQLGSLIE																	
		***	**	**	***	***	*	***	*	***	*	***	*	***	*	***	*	***	*	***	*
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52 kD	Ro	NLKKISQEAREGTQGERCAVHGERLHLFCEK	DKGALCWVCAQSKKHRDHAMVPLEEAAQ	EYQEKLVALGELRRKQELAEKL																	
RoRet		ALKKTDQEM-----SCEEHGEQFHLFCE	DEGQLICWRCERAPQHKGHTTALVEDVC	QGYKEKLQKAVTKLKQLEDRCTEQ																	
		***	**	*	***	*	***	*	***	*	***	*	***	*	***	*	***	*	***	*	***
52 kD	Ro	EVEIAIKRADWKKTVETQKSRIHAEFVQ	QKNFLVEEEQRQLQELEKDEREQRLILGE	KEAKLAQSQALQELISELDRRCHS																	
RoRet		KLSTAMRITKWKEKVQIQRKIRSDFKNLQ	CFLHEEEKSYLWRLEKEEQTLSRLRDY	EAGLGLKSNELKSHILELEKKCQG																	
		*	**	*	*	*	**	***	*	**	*	*	**	*	*	**	*	*	**	*	*
52 kD	Ro	SALELLQEVIIVLERSESWNLKDL	ITSPELRSVCHVP-----GLKKMLRTCA	VHITLDPDTANPWLILSED	RRQVRIGDTQQ																
RoRet		SAQKLLQNVDNLTLSRSWAVKLETSEAV	SLELHTMCNVSKLYFDVKKMLRSHQVSV	TLDPDTAHHELILSED	RRQVTRGYTQE																
		**	***	*	**	*	**	*	***	*	***	*	***	*	***	*	***	*	***	*	***
		B30-2 DOMAIN																			
52 kD	Ro	SIPGNEERFDSYPMVLGAQHFGHSGKH	YWEVDVTGKEAWDLGVCRD	SVRRKGHFLSSKSGFWTIWLWNKQ	YEAGTYPQTPL																
RoRet		NQDTSSRRFTAFP	CVLGC	EFTSGRRRYFEVDVGE	GTGWDLGVC	MENVQRGTGMKQEPQSGFWTLRLCKKKGY	VALTSPPTSL														
		**	*	***	*	**	*	***	*	***	*	***	*	***	*	***	*	***	*	***	*
52 kD	Ro	HLQVPPCQVGIFLDYEAGMVSYNITDH	GSLIYSFSECAFTGPLRPF	FFSPGFNDGGKNTAPLTLCP	LNIGSQGSTDY																
RoRet		HLHEQPLLVGIFLDYEAGVVSFYNG	-NTGCHIFTFPKASFS	DTLRPFYFQVYQYS-----PLFLPP	PP--G----																
		**	*	*****	*****	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

FIG. 5A.

NPT1	MQMDNRLPPKKVPGFCSFYRGLSLVHCCNVIIITAQACLNLTVMVMVNSTDPHGLPNTSTKLLDNIKN-----
NPT3	--MDGKPATRKGPDFCSLRYGLALIMHFSNFTMITQRVLSIAIIAMVNTTQQQGLSNASTEGPVADAFNNSSISIKEFDTK
NPT4	MQVDETLIPRKGPSLCSARYGIALVLHFCNFETTIAQNVI MNITMVAMVNSTSPQSOLNDSS-----
	* * * * *
NPT1	-PMYNWSPDIOFIILSSTS YGVII IQVPVG YFGSYSTKKMIGFALCLSSVLSLLIPPAAGIGVAWVVVCRAVQAAGQIVA
NPT3	ASVYQWSPETQGII FSSINYG IILTLP SGYL AGIFGA KKM L GAGLLISSLLTLFTPLAADFGVILVIMVRTVQGMAGMAW
NPT4	-----VLPVD SFGLSKAPKSLP-----AKSSIL
	* * *
NPT1	TAQFEIYVKWAPPLERGRLTSMSTSGFL LGPFIVLLVTGVICESLGWP MVFYIFGACGC AVC LLWFVLFYDDPKDHPCISIS
NPT3	TGQFTIWAKWAPPLERSKLTTIAGSGSAFGSFIILCVGG LISQALS WPFFIFYIFGSTGCVCCLLWF TVIYDDPMHHPCISVR
NPT4	GGQFAIWEKWGPPQERSRLCSIALSGMLLGCF TAILIGGF ISETLG WPFVFYIFGGVGC VCCLLWFVVIYDDPF SYPWI STS
	** * ** * ** * ** * ** * ** * ** * ** * ** *
NPT1	EKEYITSSLVQQVSSSRQSLPIKAILKSLPVWAISIGSETFFWSHNMITYTPMFINSMLHVNIKENGFLSSLPYLFAWICG
NPT3	EKEHILSSLAQQPSSPGRAVP IKAMVTCLPLWAIFLGFSSHFWLCTI ILTYLPTYISTLLHVNI RD SGVLSSLPFIAAASCT
NPT4	EKEYII SSLKQQVGSSKQPLP IKAMLRSLPIWSICLCF SHQLVSTMVVYIPTYISSVYHVNI RDNGLLSALPFIVAWVIG
	*** * *** * ** * ** * ** * ** * ** * ** * ** *
NPT1	NLAGQLSDFFLTRNILSVIAVRKLFTAAGFLLP AIFGVCLPYLSSTFYSI VIFLI LAGATGSFC LGVFINGLDIAPRYFGF
NPT3	ILGGQLADEFLLSRNLLRLITVRKLFSSLD MQVSWE-----SQD LGSSES-SLPLDSSS----
NPT4	MVGGYLAD ELLTK-KFRLLITVRKIATILGSLPSSALIVSLPYLNSGYITATALLTSCGLSTLCQSGIYINVLDIAPRYSSF
	* * * * *
NPT1	IKACSTLTGMIGGLIASTLTGLILKQDPESA WFKTFILMAAINVTGLIFYLIVATAEIQDWAKEKHQTRL
NPT3	----VRILSLVGGMSFSCLL-----QSTCLAWSFTSRLDKQNFKTGPKRGPLPASEDIKLQT-----
NPT4	LMGASRGFSSIAPVIVPTVSGFLLSQDPDEFGWNRNVFFLLFAVNLLGLLYLIFGEADVQEWA KERKLTRL
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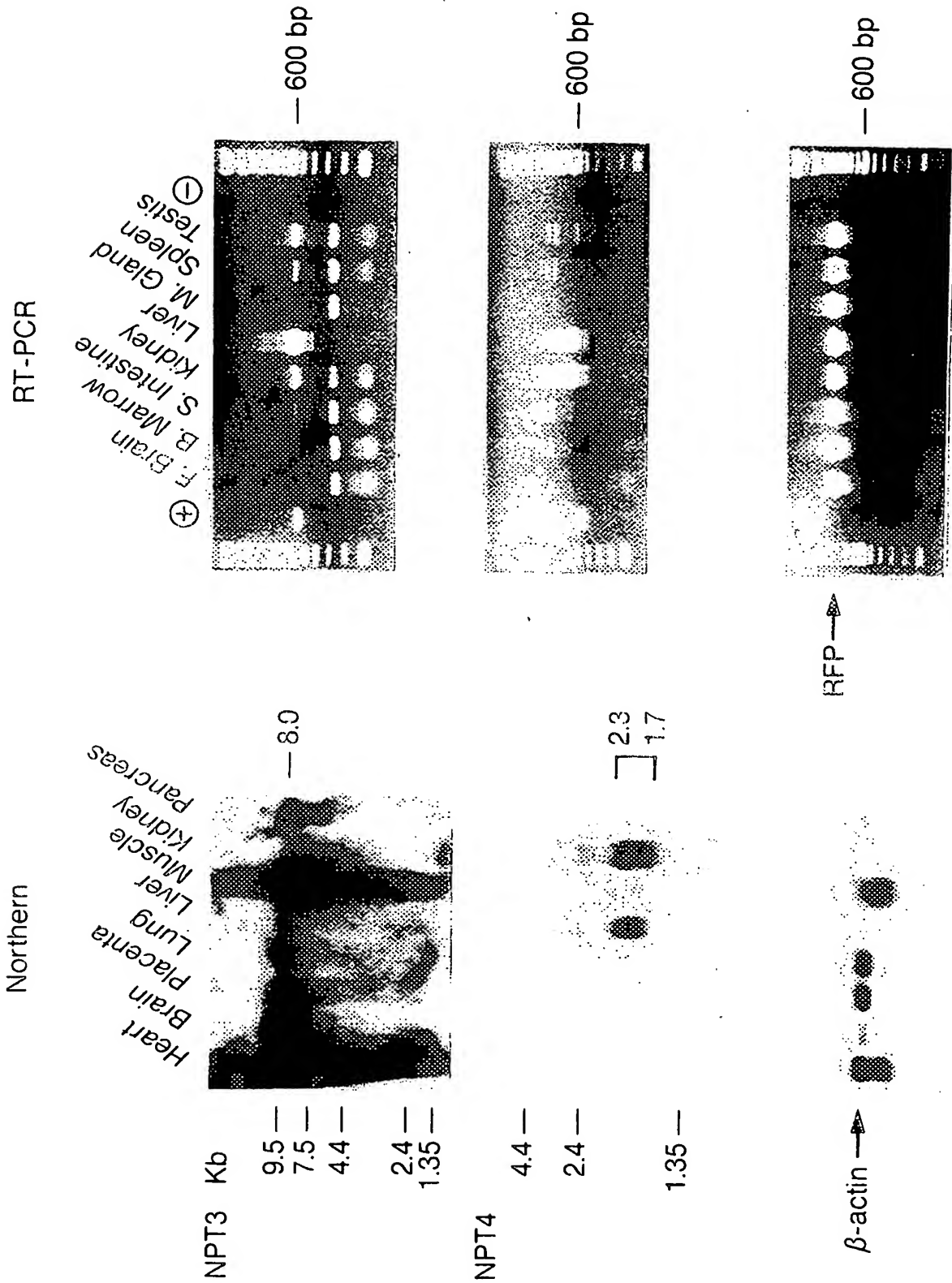
FIG. 5B.



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Figure 7 (1 of 6)

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1081	GACTAAGTTT	TGGTACCCAG	GCGTGGGATG	CTGCAACAAC	AAATACCTAA	ACATGGGGAA
1141	GTGGCTTTGG	AAATTGGTGA	TGGGTAAAGG	CTGGAAGAGT	TTGAGGTTCA	TACTAGAAAA
1201	AGCCAATTGT	GAAGGGACTA	TTGAAAGAAA	TATGGACATT	AAAGGCAATT	CTGGCAAAGG
1261	CTCAGAAAGG	AAGAGAGCTG	GACAGAAAGC	TTCCATTTTC	ATAGAAACTT	AGATTTATAA
1321	CGATCATGGA	TAGAATATTA	AATATGCTGG	TTAAAATATG	GACTTTAGGC	CAGGCGTGGT
1381	GGCTCACGCC	TGTAATCTCA	GCACTTTGGG	AGGCTGAGGG	CACAGATCAC	GAGGTCGGGA
1441	GTTTGAGACC	AGCCTGGCCA	ATATGGCGAA	ACCCTGTCTC	TACTAAAAAT	ACAAAAATTA
1501	GCTGGGCATG	GTGATGTGCT	TGTGTGTCTC	CAGCTACTCG	GGAGGCTGAG	GCTGAAGAAT
1561	CGCTTAAACC	CGGGGGGTGG	AGGTTGCAGT	GACCCAAGAT	CACACCACTG	CACTCCAGCC
1621	TGGGATACAG	AGCAGGACTC	CACTCCCCCT	GCCACACACA	CACAAAAAAT	ATATATATAT
1681	GGACATTAAA	GTCAACTCTT	GTGAGGTCTC	AGATGAAAAT	GAGGGACAGG	TTATTGGAAA
1741	CTGTAGAAAT	CACTGTTCTT	GTTACAATGT	GTCAAGAACT	TGGCTGAATT	ACGCTGTAGT
1801	GTTTACTGGA	AAGAACTTAT	AAGCAGTAAA	ACTGGATATT	TACCAGAAGA	GATGTCTAAG
1861	CAAAGTATTG	AAGGTGTGAT	TTAGGTCCTC	CTTACTGCTT	AAAGTGAAAT	GTGAGAGGAA
1921	AGAGCCGAAA	TAAAGAAGGA	ATTTTTTAAGC	AAAACACAAT	CAGAACTTGG	AGATTTGGGA
1981	TAGATTTCTC	AATCTATATT	GTAAAAATTG	AGAAAGTTTT	TCTTGAAGAG	GTATGGTTGA
2041	ACAATGTTTT	CTTTTTCTTT	TTTTTTCTTG	GTTTTATTTT	TATTTTTATG	TTTTTTGAGA
2101	CAGGGTCTGG	CTATGTCATC	CAGGCTGGAG	TGCAGTGGCA	CAATCTCAGT	TCAGTGC AAC
2161	CTTTGCCTTC	AGGCTCAAGC	AATCCTCCCA	CCTCAGCCTC	CTAAGTAGCT	GGGACTACAT
2221	GTATGCACCA	CCACACCCTG	GCTAATTTTT	TGTTGTTGTT	TATAGAGATG	GGGTTTTGAC
2281	ATGTTGCCTA	GGCTGGTCTC	TAACCTCTGA	GCTCAAGTGA	TCTGCCCTCC	TCAGTCTCCC
2341	AAAGTGTTGG	GATTACAGGC	GTGAAACACT	GAGCCTAGCC	TGAACAACCA	TTTGATAAAG
2401	AGATAATGGG	TGTGACCCAA	GGATTTAATC	AGCCATCTCA	GCAGAAGCCA	GGAAGAGAGA
2461	TGGGATTATT	CCAGCAGAGA	CACTGCCAAT	TTAAACTAAC	GTAGGCAGAG	AAAACAGAAA
2521	GGAACAAAGG	AAGGTTGTCTG	ACTTTTTTGAA	TTCTATAGAA	CAGGATCATA	GAGCTACCTG
2581	GCTGTCAATG	TGTACTATTC	TTTAAGAAAA	GGAAAGACTG	ACCCACCAAA	GGCAACTTAC
2641	AAGATCACTA	GGGCTGACTC	TTTTGTTTTT	TCTTGAGGCA	GTCTCACTGT	CACCCAGGCT
2701	GTAGGGCAAT	GGTGTGATCT	CAGCTCACTG	CAATCTCCAC	CTCCAGGTT	CAAGGGATTTC
2761	TCTTGCCCTTA	GACTCCCAAG	TAGCTGGGAT	TACAGGCTCT	AAATCTGTAC	CCTCCCGAGT
2821	AGCGCTCCTG	CCACCACTTG	CCCAGCTAAT	TTTTGTATTT	TTAGTAGAGA	TGGGGTTTCA
2881	CTATGTTGGC	CAGGCTAGTT	TGGAACCTCT	GACCTCCAGT	GATCCATTCT	CATTGGCCTC
2941	CCAAAGTGCT	GGGATTACAG	GCAGGAGCCG	CCAGGGCTGC	CACTTTGATG	TCAGACTCAG
3001	AGAGTACAGA	TGGGATAGGG	TGGGGGTGGG	AACATGTAGT	CAAGGCTGAC	TCTACCTGTT
3061	TCAAAGATGC	CCTGCAGAAC	TGTGTGGGAG	TCTCTCACAG	ATGGCTGCCT	GGGTGGGACC
3121	CCACCAAAC	GAAAGACCGA	GACTTCAGGC	AGGGCAGATG	GAGTAGGCCA	ACTACAGAGC
3181	CAGAGGTGAC	ACTGAGACAC	CACTGGGCCCT	GGAAATCAGG	GCATCAAGCC	AAAGAGGGTT

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3241   TTTCTTAAGA CCTAACAGAA TTTGCCTTGC CAGGTTTTGG ACTTGATTAG GACACATTAC
3301   ACCTTCCTTC TTTCTATTT CTCCATTTTC TAATGGGAAT GTCTATTATG CCTGTTTCAC
3361   CATTGTACCT TAGAAGCATG TAACATTCTT GGTTCACAC GTTCAAAGCT GGAAAGGAAT
3421   TTTGTCTCTG GATGAATCAC ACATTGAGCC TCACCCGTAA CCTGATTTAG ATGATTTTTT
3481   AGATGACACT TTGAACTTTA GAATTGATG TAGAATGAGT TAAGACTTTC AGGGGGCTGT
3541   TGGGATGGAA TAATTTTTTT TTTTTTTTTG AGACGGAGTC TAGCTCTGTC GCCCAGGCTG
3601   GAGTGCAGTG GCACCATCTT GGCTCACTGC AAGCTCTGCC TCCCGGGTTT ATGCCATTCT
3661   CATGTCTCAG CCTCCAGAGT AGCTGGGACT ACAGGCGCCC GCCACCACGC CTGGCTAATT
3721   TTTTTTTTTAT TTTAGTAGAG ATGGGGTTTC ACCGTGTTAG CCAGAATGGT CTCGATCTCT
3781   TGACCTTCTG ATCCGCCTGC CTTGGCTTCC CAAAGTGCTG GGATTACACG TGTGAGCCAC
3841   CATGCCCCGC TGGGATGGAA TAAATTTATC TTGTATGGGA GAAGGACATA CATTTTGGCA
3901   GGTCAAGGAC AGAATGTTAT GGAATAAAT GTGTCCCCCA AAATTCATTT ATTAATAACC
3961   TAAACCCAG TGTGACTGCA TTTGGACATA GAGCCTTAG GGGGTACATA AAATAAAGA
4021   TCACAGGATA GGGCCCTAAT CCCATTGGGG CTGGTGTCCT TACAGAAGAT GAGACACTTA
4081   GAGCTCTCTC TCCACGCAGG CACCAAGGAA ACACCATACA AACACACAGT GAGATGGCAG
4141   CCATCTGTTA GCCAGGAACA GATTCTCACC ATAAACTATG TTGGCACCTT GATCTTAAAC
4201   TTCCAGGCTC CAAAACTGTG AGAAAATGAA TTTCTGTTCC AAGCCTCTTA GATATGGA
4261   AAAAGATTCT GTTGTTTAAG CCATCCAGTC TCTGGTATTT TGTTATGGCA GCCTGAGTAG
4321   GCTAAGACAA TGAAGGATGT GGTAATACTT TACGTCCCAA CCACATACCA AAGAGGCTGG
4381   AATTTAGCAT GCTTTCTTCT TTCAACTGTA GGCAATGTGC ACAAGTTCTA AATCCTAAGA
4441   CATGTTGGCT CTTTACTCT GCCCAAATA CAACTCAAAC AAACAACCTG ATATAATAA
4501   CATCCAATGA AGTTCTGACA TTTCTTCAAC ATGAGTACAG TAATCAATG CCAGAGAATT
4561   CATTTTATTT TGAAATCTAC ATGCCATATT CCAATTTCTG TTGAAGATGC AATGGTTATA
4621   TTTATTCTTT TTAATATAGA TTTATCAGAC TGGGCGCGGT GGCTCATACC TGTAATCCTA
4681   GCATTTGAGA GGCTGAGGTG GGCATATCAC CTGAGGTCAG GAGTTTGAGA CCAGGCTGGC
4741   CAACATGGTG AAACCTGTC TCTACTATAA ATATAAAAT TAGCTGGGTG TGGTGGTGCA
4801   TGCCTGTAGT CCCAGTTACT AGGGAGGCTG AGGTAGAATT GCTTGAACCT GGGAGCAGGA
4861   GGTGCAATG AGTGGAATC GCACCAGTAC ACTCCAGCCT GGATGACAGA GCAAATAAT
4921   AAATAAATAC ATAAATAGA TTTATCAGT TATCAATAAT ATAGTTTCT TTTCTAGGTG
4981   TAAATATAGG TAATGACTGT CCTTTAGTAC ATTTTCTCAT GATGCTCCTC TTACTTGGTT
5041   TGGTACAATA TTAAGTATTG AAATAAATA GAGAATCCTG TCGCTACACA TGAGCACTTA
5101   TTCCATTTGC TCATCTCCAA TATGCACGGG AAATTCTCAA ATTGCTAATA ATCTTGTAA
5161   ACACATGCAT TATATTCAAC AGGAATATAT AAATTTATAA TTATAATTTA GGATCAACAG
5221   ATGACAAACC TTTAGAAGGT TTGTATTTAA CCTTAAATA TAATTTTTTA AAAATTTGGT
5281   ATAAAATTT TAATACTTT TTTTTGTGA CCTCAAGGGG AAAATATAAT TCTTATAAAA
5341   GTTCAAATGA TTTACAGAAT AAAAAAGTG AATAGAGATG ATGAATGAAT TAAAGGAAAG
5401   GATATTGCTA CATAGATTTG GAAATTTAAA AAGGGAAATT ACGATTGTTG ATTTTGTGTT
5461   AAATGATCT GCTTTGTTCA AGATACCTTA TGTACCAAAA AATGATTTTA TCTCAGCCTC
5521   ATATCTCAGT AAATTCCTGA GACAACTTT AGTCCCTGGT GCCCAGGTGC CTTTGGTAAT
5581   TGGGAGACCT CTAGGTTTAG CATCCTCATC CACTCGCCCC AATTTAAATA GTCCTCCCA
5641   GGGCCATTCA GGCAAGGGAG ATGAAACTT GCTCAAGAGT TGGAATCCAA CTGAAGCTAC
5701   CGAAATTCAT TGCTCAATAG ATAATTTCC CTGGAAGTAA CTAGGGCTTT TGAATATAAT
5761   AGTGGGCATT TCAAAGTAGA AGGTAAAGTA TTTTGGAGAT GAGGAGACAG GACAGAGCTA
5821   CGAGGAATGT CCTTTGCTTA GGGACTAGGC TCTTAGCAGT ACCTCTTAG TAAGAACTGG
5881   TTAATGGCA CCTTCTGTGT TTCTCTGAAG TCCCTTTGC TTAGGACTA GGCTCTTAGC
5941   AGTACCTCTT AGGTAAGAAC TGGTTAACTG ACACCTTCTA TGTGTCTGAA GCTCCAGAA
6001   CAACTGCCA GTGAAATTTG GATTTTGGGA ATATAGTTTC TTTTTCTTG TTACTTTTG
6061   TTTTGTGTT TTTTTTTGAG AGTCTCACTC TCACTGCAAC CTCCCCCTCC TATATTCAAG
6121   TGATTCTCTT GCCTCAGCCT CCCGAGTAGC TGGGACTACA GCGTGCAC AGCATGCCCC
6181   GCTAATTTTT GTATTTTTTA GTAGAGATGG GGTGTTT TTTTGGAGAC GGAGTTTCAC
6241   TTTGTGCCCC AGGCTGGAGT GCAGTGGCAC GATCTGGCT CACTACAACC TCCACCTCCC
6301   GGGGTTCAAG TGATTCTTCT GCCTCAGTCT CCTGAGTAGC TGGGACTACA GGCGCTACA
6361   GGTGAACACC GCCACACCTG ACTAATTTGT GTAGTTTAT TAGAGATGGG GTTTCGCCAT
6421   GTTGCCAGG CTGGTCTCAA ACTCCTGACC TCAGGTGATC TACCCACCTC AGCCTCCCA

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6481 AGTGCTGGGA TTACAGATGT GAGACACCAG ATCAGCCTCA GAAGACATTT TCTATTGGAA
6541 AGAGAAAACA CTATTAGCAA CCTATTAGTC TAATATTTAA TACTTAATGT CTTCCCTTAGT
6601 AATAAACCAA CTCTCTACAA CAAAGTGCTT CCTGGCTGCC TAAGTCATTG ATTCATTCAG
6661 TTCAACATTT TCTCAATGCC CAACAGCCAA GTGTCTCTTG TATGCCAAGT TCTATGCTGA
6721 TTATCAGTAT TTGAATAAGA GGGGGTCTAC ATCTTAAGTA CTGCTTAAGA TGAAAGCCTC
6781 TAGGTTAACA AACTTAACAC AATGTATCAT TCACTACTAA ATAGACCGAA TACAAAATCT
6841 TGTTATTGGA GCCCAGAGAG AAGAATTGAA ATTCAAGTTT TCTCTCTCTC CTTTCTCTC
6901 TCACCACAAT AAGTCAGTTG CACCAAGTCT TGTAGCTCTT TACTGAGCCA TGTTTTACG
6961 TGTCCCTTTG TTTTATTTGC CACACCCTAA ATAAAAATTG TACTGGCTTT TTTTCCCTGG
7021 GTTTACAGTA TTAATACATT GTCAAGATTT ACCTCTTCGT GTAGATTCCC TGGGGAAAAAT
7081 TACCTTTCCT CTTTCCCTTA AATCTTTCAG AGGTTAGAAA GCCATTAGTA ACATTCTGGT
7141 ATGTGGACAA AGTTTACCCA TTATGTATGG ATGTTTTACT CTTTCTATTT TTCTGACAAT
7201 AATCTCTTAA GGAGGTGTGG TTATAGAATA GTCAGCTGTT ATAAGTACTG TTTTCTGGC
7261 CTTACAACCT AAGTTCTTTA AGCTGTTTCT TAGTTTGCTC ATCTCAAAAT TCGGAATAAG
7321 GATAAAACCT ATCTCTTAGA TTGTTGGATT AAATGAATTA ACATACTGGA AGCTCATGAA
7381 ATGTGCCTGG CACACAGTAG TGCCTAATAA ACCATCTCTC TTATTCAGCC TGTTTTCTGA
7441 TTTCAGAATC TACACTTGCT GAGCCAGGTT CTTTTCATTT CAAGGTGAGC AAAAGCATAC
7501 AAGGAAGAGA TGGAGGTAGG AAGAGATTAA GCCCTAGGCC AAGGTCACAC ACCGATTGGG
7561 AGCTGGAATC AAAGGCAATT TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA
7621 TTCTAACCTT AGGATCGAAA TTCTCGGACA TACAGGAAAT GCTGGGGGGG GAAAATCCGG
7681 TCTTCTCAGC CCAAGAGCCA TGTGAAACCA GACCTTCAAA TCTGATGATT CTCAGCCCAG
7741 CTGCCCATTA GAATCGTTGT AATTTAAAAA TACCTTCGGA AAATTCTAAT ATGTGGCTAT
7801 CAAAGGTGAT CATTTGCTTT TATGCCACTT TGTTTTTACC CAAATGGGAC ATCCAACCCT
7861 TTTCCCTTGA GAGTAGTTGT AGGAAAGGA GGGGGTGGAG GGAGGGAAGA GCGGAAAAGG
7921 CTGGATCCGC CCTGAGCCGG TGTCAGTATC TGGGAAGTGG GAGGCGCGTC AGCAGTAAAC
7981 AGCTTCTGCT AGGATTATTA TCTCCTGCCA CACACTCGGA TTTGAAGGCT CCAAACGAAA
8041 CAATGCAAAA CGCTTCAGTG GAGTTCCAGA AGCGTTAGAC TAAACGACTG GGTCTGTTTG
8101 GCCAGTCTGA GCAGCTGGGC GCAGATGCAT AGGCAAGACT TAGCCCGCCT AGACTTTTCT
8161 GCCCACCTAA TTCCGATCAA AGCAGAAACC GGCCGGGCGC GGTGGCTCAC GCCTGTAATC
8221 CCAGCACTTT GGTAGGCAGA GGCTGGCGGA TCACCTGAGG TCAGGAGTTC GAGACCAGCC
8281 CGGCTAACCT GGTGAAACTC CGTTTCTACT GGTGGCGGGC GCTTGTAATC CCATCTACTA
8341 GGGAGGCTGA GGCCGGAGAG TCGTCTGAAC CCGGGAGGCG GAGTTTGTAT GCAGTGAGCC
8401 GAGATCGCGC CACTGCATTC CAGCTTGGGC AACAGGAGCA AAATCCGTT TCAAAAAAGC
8461 AAGCAAACAA ACAAAAAAAT GCAGAAACCG AGATCCGGAA GAAAACCTCG GCGAGATTCA
8521 CAGAATCCAG GAAAATAGGT CTCTAGAAAT TTGTCCATGG TCCCAGATCT CCATTTCTTG
8581 TGGGTGGGGC AGCTGTTACC AGATCCCTAG AAGCAAAGGT TTTTGTGGG GACCGTGTCT
8641 CACTGTTGCC CAGGCTGGAG GGCAGTGGCA CGATCTCGGC TTACTACAAC CTCCGCCTCC
8701 CAGGCTCAAG CGACTCTCCT GCGTCAGCTT CAAGAGTAGC TGGGATTACA AGGTATGTGC
8761 CACCACGCCC AACTTATTTT TTTATTTATT ATTTTATTTT AGTAGAGAGG TGTTTCACCA
8821 TGTTGGCCAG GTTAGTGTCT AAGTCGTGAC CTCAGGTGAT CAGCCCCCTC GGCCTCCCAA
8881 AGTGGTAGGA TTAGAGGGGT GAGCAGAAAG CAAAGGTTTT TGAGTGGCCA CAGGCCCCAC
8941 TCTATTTTCT TTTCTGCCTG TAATGGCAAC CTAGACGCTT GAGCTTCTTA AAATACAAGA
9001 GTAAGTTGCA TGTCAGGCAC CGTTCTACAT TAGGGACATT AGTCTGTTTT ACAGACACCT
9061 TTCAACTCCC TGGTTAACTT TTAGGTAATA TACTCTGCAC TTTAGCAGGA ATGGGACCTA
9121 TAACTCTCAC AGAATTAGGA AAGTGAGGCT GCCTACAGCC TAAATTGAGA AAAAAATAGA
9181 CGGGGGACTA GTCGGAGGAC CAAACAAGGT TACCAACACG TTAGAGTTTT GCCTTCAATT
9241 TACATTTTAA AAGTAATCAC AACGAAGTGT TTAGATCACG AGGCATCCCT GCATGTAAAC
9301 TGTTAGGCAC TAACTATGGT CGATCTTACA AAGCATTAAC TAGAATATTT CTTTAGAGTA
9361 TGATAGTACG TAACTGACCT ACTATTACAT ACAAACAGAC CAACCTTTAG TAACAGCGCT
9421 CCCCCAAAAC CGAAAAGCAG TAATACGCTT TGCTCAAGGT TGGCATAAAA TTAACCTACC
9481 TTAGTGCCTT TTTTCTTCTT ACCTACAAGC AGTGAGGTTA GCTCTTCTT TGAAACGGTA
9541 GGGGGGCTCT GAAAAGAGCC TTTGGGTTTG ATAGCGTTTC CGGGAGCTCA GATACCTGTC
9601 AAATCACTTG CCCTTGGCCT TGTGGTGAAT CTCGGTCTTC TTAGGCAGAA GCACGGCCTG
9661 GATGTTAGGA AGGACGCCGC CCTGAGCAAT GGTCACCCGG CCTAGCAGTT TGTGAGCTC

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9721	CTCGTCGTTG	CGGATGGCCA	GCTGCAAGTG	GCGCGGGATG	ATGCGAGTCT	TCTTGTTGTC
9781	GCGAGCCGCG	TTGCCGGCCA	GCTCCAGGAT	CTCGGCGGTC	AGGTACTCTA	ACACCGCCCG
9841	CAGGTACACC	GGCGCGCCTG	CCCCAACCCG	CTCTGCGTAG	TTGCCTTTAC	GGAGCAGGCG
9901	GTGCACTCGG	CCCACCGGGA	ACTGGAGACC	AGCGCGAGAA	GAGCGGGATT	TCGCTTTGGC
9961	GCGAGCTTTG	CCTCCTTGCT	TACCACGTCC	AGACATTGCA	ATCAGACAAA	AATCACCAAA
10021	ACCAGCGGCC	TAAGCTCACG	AGAAAACAAA	CAAAATCAAG	AAATATGTAA	AACATGGCCG
10081	CTTTTATAGG	TAGTTCCTGG	GGAGTAAATC	CGACTTTTTG	ATTGGTCCGT	AGCAAATGCT
10141	AGTCAGATAG	CCAATAGAAA	AGCTGTACTT	TCATACCTCA	TTTGCATAGC	TCTGCCACAG
10201	GATGACAACT	GTGCAGTTTG	TCTTCCAATT	AACATAAGAGG	TACTCTCCAT	CCCTCATTAG
10261	CATAAAAGCC	CTATAAGTAG	CAGAAATCCG	CTCTTTACTT	TCGACACATT	TCTGGTGTTC
10321	TAAGATGCCT	GAGCCAGCCA	AGTCTGCTCC	CGCCCCGAAG	AAGGGCTCCA	AGAAGGCAGT
10381	GACCAAAGCG	CAGAAGAAAG	ATGGCAAGAA	GCGCAAGCGC	AGCCGCAAGG	AGAGTTACTC
10441	TGTGTACGTG	TACAAGGTGC	TGAAACAGGT	CCATCCCGAC	ACTGGCATCT	CTTCCAAGGC
10501	CATGGGCATC	ATGAATTCTT	TCGTAAACGA	CATATTTGAG	CGCATCGCGG	GCGAGGCTTC
10561	CCGCCTGGCG	CATTACAACA	AGCGCTCGAC	CATCACCTCC	AGGGAGATCC	AGACGGCCGT
10621	GCGCCTGCTG	CTTCCCGGAG	AGCTGGCCAA	GCACGCCGTG	TCGGAGGGCA	CCAAGGCCGT
10681	CACCAAGTAC	ACCAGCTCCA	AGTAAACATT	CCAAGTAAGC	GTCTTAACAC	CTAACCCCAA
10741	AGGCTCTTTT	AAGAGCCACC	CAGATACCCA	CTAAAAGAGC	TGTGGCCAGC	GCCTAAATTT
10801	TATTTGGCGG	CGGAGGGGTA	TTAGAATATA	GGAAGTGGAG	AGGGGTGGGG	ACAAGTGTTC
10861	CAGCTTAGAG	AGGGACAAAG	GGTCCTGAAC	CCGAAAGAAG	CCAGCCATTA	AAAATGGCTT
10921	TGGGGTCAAT	TCGTTGTGCT	TAAATTTAAA	ATGGAGACAA	GCGGCCATTT	TGCTAACTCG
10981	GCGTTCCTCG	AAGAAACCGC	AGGCTCGCTT	AGGTTTCAGA	CCCAGCTGTC	TGTCCCTGTC
11041	TACGTCGCCA	GGATCAACGG	TTGCCGTAAT	GTCATAATTT	CGCCACCAGC	TTCTAGCCAA
11101	TAGGCTGTCC	TGTCATTTTA	AATATTAACC	AATCGAGGGA	AAGCTGTTTT	GAGACTCTGA
11161	TTTACATAGC	GGACCGGAGT	GGGAACCTGG	GCAGTAACTG	CCTAAGGAAG	GACTCCCCCT
11221	CTGTTTTTCGT	GGCGCACACC	TTCTAGTAT	ACTGAAGGGT	GTGTCTCCTG	GGTTTCCAAC
11281	TGCCCCGGTA	ATAGTCTTTT	AACCTAATAT	GCGTCAGTTT	TGATAACAAC	ACTAAGGCAG
11341	TACAGAACTA	AAGATGTAAG	CACTGCGCCA	GATGTTGCTT	CATACATCTT	ATTCTATTCA
11401	ACTGGTTTAT	TCAAGATTCA	AATCAAACTA	AATTTTGCTT	GAATCCCAGT	GCTCAGTCAG
11461	CCATAAATGG	TGTGTTGCCT	GATTGAAACT	TAAATCTCC	GTAGGGGGCT	TGTAACATGC
11521	AGACAAGTTT	GAAAGTTGCT	TTAGGAGAAG	CCAACTCTTA	ACTGCTGGGT	AAATTGACAA
11581	GCCTTCGAAC	ACTGAACTGA	AGGCCAGTAA	GGACTAGGCG	CTGGGTGGGG	GAGAATGAAG
11641	AGGAGACGTC	ATTAACTTA	GCACATACAC	TGTATCTCCT	AGAGGACTCT	CCCTTCCTAG
11701	ACAACCTGCAG	GCCGCTTTGT	GGCCTGGGAA	ATTCCACATT	CCCTTAAGTA	TTTTACTCAT
11761	GGTCTTTTCC	AGGTAAAGAT	TTTAAGATGA	AGGGTTAGAC	GTAGTCTACC	TATCTTTTTTA
11821	TTCAAGTCTA	GAACACGTTT	TTAGCACCTA	GAAGTTTGCT	TTCTCCATTA	AAAACCGGGA
11881	ATATACAATA	AATAAAATTA	GTGTTAAAGC	AGATTTTAC	AACTTAAAT	ACCATGTAAT
11941	TTAGGTTACA	GTTATTTAAC	ATAAGGACTG	TGTGATCTTA	AATCTGCAAT	TTCTTTTACA
12001	CCTGGGAAAT	AAACTAAGGC	CTGTCTTTGG	TGCCAGACAA	GGCCTTATAC	TTGAACACTG
12061	CTGTGCAATC	ACAGGCTGCC	TTGCCTAGAT	AACTTATCTG	AGAAATTCTG	ATGAGAAATG
12121	AAATTTCCAG	AGTCCCTCAC	AAGTAAATTT	TTTTTTCTTT	TTTTTTTTTT	TTTTTGAGAC
12181	GAAGTTTCTC	TCTTGTTCCT	CAGGCTGGAG	TGCAATGGCG	CGATCTTGGC	TCACAGCAAC
12241	CTCCGCTCC	CGGGTTCAAG	CCATTCTCCT	GCCTCAGCCT	CCGGAGTAGC	TGGGATTACA
12301	GGCATGCGCC	ACGACACCTT	GGCTAATTTT	GTATTTTTAG	TAGAGACGAG	GTTTCTCCAT
12361	GTCGGTCAGG	CTGGTCTCGA	ACTCCGGACA	TCAGGTGATC	TGCCCCCTTT	GGCTCTCCAA
12421	AGTCTGGAT	TACAGGCTTG	AGCCACCGCG	CCGGGCCTAA	ATGGTTTTTT	TTTTTTCTAT
12481	GCCTCTAATG	GACCTGGTCA	CTTATTCCCA	TTCAGACTGA	CCGCTCTCCT	ACCTGCCAAC
12541	TAACATAATCA	GTGTAACCAA	AATCTGCAAA	CAAAATTCAG	TATTCTTTCC	CCGCCTTTTC
12601	CCCTTTCTCT	TACATAGATT	ATGTTTTTGC	CTGTGTTAGA	TGAAATAATT	CTATTGCTTG
12661	TTCTCTCTTC	TGTACAAGTA	CCCAGTAAGC	AAATTATTAA	CTTCTTGCTC	ATTTATTTCT
12721	GAATTTTCCA	CCAAGACAGT	GTTTATGTGA	GTCATACAAT	AAGAACCAAC	AGAAATGTGT
12781	GTCTTGGAAG	CAGGTTGTCT	ATCCCTGGAC	CCTTTGAGTT	TTCTGTTCAC	TTTCCTTTGG
12841	CTTTTGCATG	CTAAAAGTTT	ATCGTCCGCG	TTTGTGTTGT	TTGGTTATTC	TAATTGGACT
12901	TGGCTGATTG	GTTGCATATT	GGTGGCAGTA	GTAGAATTTG	AATTCTGGTT	TTCTGGTCAC

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12961 ATCATTAAAGT GATTAGTCAG TGGAGAGGAC AGGAAATCTG GTTTATTTAT TAACCTTTTT
13021 TTGGGGTGTT TTTGTTTGAA GATGTTGATA TTCTCTGTGA GGACACAGGG TTAGAGTTGG
13081 TGTTTTTCTT TCTGACTTTA CATGGGATTT GATGTTTTGT GCTTGTATGC CTCTTTCCAC
13141 CTTCCAAAAC TTGTCTTTTT TGAGTCCAAA TAGTTGTCGA TATCTGCAAA ACCAGTATTC
13201 CTGTGTAAAG ATGATATGAA TATAAAATGG CTGCCCTGTT ATAACCTTTG ACTTTAAGAA
13261 AGTGTTAGGA CTAACAGGAG ACAAAAAGGA AATCAAGGAA ACCGAATGTC TGGTCTCAAT
13321 AACTGCTATG GCAGAGGCTC TACAGCTTAT TATTAATTTT AGTAATTTCA CATTATTGCC
13381 CCTTCACGTT CTTTAAGTAA GGTTAGAGGA CAGAAGAAAC ATAATGTTGT TACAAATTGG
13441 ACTATTGAGT CAGGGAAAAA AAAGAGTGCT TTCAATATCT GAATAAAACA AAGATTTAAT
13501 ATTTTCTAAA CCTTAACGAG TTTATTGTAA GGGATGTGAT GCTGGAACT AGGAAACTAG
13561 AATTTTCTTC TAAACTGAGA ATCAGAATTA TTCATATTCT CAGCAGTGGT GCCACCTGAG
13621 GGACTTCTGA TCTTAATTAC ATACTTTTAT TTCTTTAACT GATCAACATG CTAAATAGAT
13681 AACCTATGGC TCTGTTTTTA CCCACTTTAA ATTCTGTTCT ATTAGCACGG TTAGCTTTCC
13741 TAATTGGCAA TAAGATTGAG ACTATCTTTT TTTTTTTTTT GAGACAGAAT TTTGCTCTGT
13801 GGCCAGGCT GGGGTGCAGT GGCACAATCT CGGCTCACTG CAACCTCTGC CTCCAGGGTT
13861 CTAGCAATTT TCCTGCCTCA GCCTCCCCAG TAGCTGGGAT TACAGGTGCA CCACCACGCC
13921 TGGCTAATTT GTGCATTTTT AGTAGAGATG GGGTTTCGCC ATGTTGGCCA AACTGGTCTC
13981 GAACTCAGGT GATCCACCTC GGCTCCCAA AGTGATGAGA TTACAGGCGT GAGCCACCGT
14041 GCCCAGAAAA GACTATCTTA TTTTATGAAT TTAAATAATT GTGAAATTAT CCACTTAAGG
14101 GAATTAATAA ATTATAATGT AATCTTAAAT TTTAGTTGGC TTACATAAAG ACTTAAATA
14161 CATCAATTTA AATAAAAACT CATTTGTCTA AAAAAAATC AAAAATTTTC CTTGTGCTTT
14221 AAATGTGCTA CCTCTTTAAG TTCTAATTAA GAGAAAAAAA GTTTAACTGT GAGTTTCATT
14281 AGTGGTCTTA GTTAACAGCT TAAAGTATTT TGTAACAAAA ATACTTCACA ATTTTAAAT
14341 AACTTAAAAA TATTAATACC TCTTTTATTA GGTTTTTTTA ATAAGGAAAA ATATAATAC
14401 ATCTAATCAA GATTTTTTTT GGACAAATTG GCTTAATAAT TTCATTTTAA AAATGGCTTC
14461 TTTATCTTA TACTGTAAAA ATAATATTAG CAGAATATTA TAGTATACAC AAGTTTAGGG
14521 TTCATATTCT AAAAAACAAA AACAAAAGCT AATTTAACTT GCATTTACTA AATTTCTTCC
14581 ACTAGTTGTA CTGGTTACAT GAGTTAACAT CACTTTATTT ATTATTCTAA AATTGTAAAT
14641 TATTCATTGA ACCAAATTAA ATGATAATAG ATAATGTCAT TTTTAAAAAT GGAATTAAAT
14701 TTTATGTTAC TAATTATAAG GATTCATGT GTGAGCTTAA GTACTGAGT CACAGTGTAT
14761 GATAACTTTA AGAATTTAGG TGAATATTAT TAAATTGAGT AAATTAATTC TCAATCTTTG
14821 GATACCTGGA CAATTTCTAA ATTGGAGGGT ACAAATACA AATCACAAGA AACAGTGTAG
14881 TTTTATGCAA ATAACATTTT TACACAGTTT AGAATAACCA TTGATAACA GATAAGAGAA
14941 CATATGATTG CCTTAGAATA GATACTGTTG CTTTCGCCAC TTTAGATTTG TAAATCACGT
15001 ACTGTATACG TGTGGGCGTA GAGGACCATG CAGGTTTTGG ATGACTGCCT CTGTTTTCGT
15061 CATGCCTATG CGGGAACACA ATTGCTGCTT TTGTTTAAAG GCTATGGTTA ATCCAAACAG
15121 CTCTGACTCT ATCAAGTACT ATAGCTACAG AGAAACACAA GTAAGCATTC GAGATAATGA
15181 CTACCTTGAG CCTTTACTTA TTTAAAAAGT TGTTACTGTT TGTTAATGTG GTACATTCAA
15241 TTTACTATGG ATTGTCACCT TAAAATAAGA CTTCAATCTT TTTCTTATTT TTATATAGCC
15301 ATGATTTATA TTCATATCTT AATGTAATAA CCAATCTTCT CTGACAACAT TATAACAATG
15361 CTGGAACCTC CATTTTCAGT ACTTCAAACA ACAAATACTG CTTTTTACT TCAGAGCAGA
15421 TGGATATGTG CTTCCAGTG TAAACACATT TGAATCTCA CTGAGAAATA CACTATCACT
15481 AAAAATACAG TTCTGAGATT CATTAAAAGA CCTCCAGAAT TCTGGAAGTA GGAAGTTTCC
15541 TCTTCAAAGT CTACAGAGGA AGATGAGGTC TGAAATAGAC AGCTTCTTCC TTCTTTTACC
15601 TGTGGTATTA TTCTGTTTTG TCCTTTTCTC CATTATCTGT CTTTCCAGTG ATGAAATTTT
15661 GATCTGGCCC TCCCAAGTAT TAAAAACAA GCAAATAAAC AAATCTCAGT TATATTTTAC
15721 TAAGATATTG GCATGCTAAC TTTTTCAGG TTTGTAACAA GGACCTTTAT AACTTGACTA
15781 AAAGTTCCTA AATAAGAATA TTTACTAGAA AATTTATTTT TGCCTGTGGC CCACATTTGA
15841 GTCAAAATAA TCAATTAGGA AAAATGAAT TGTTTAACTA AAGTTGACCA AACTGATCTT
15901 TGACCAAAT GATCTTTGAG ACCTATTCAT CTAAGACAAG CCAATTAAAT TCTTGAGAC
15961 AATTGTACT TTAAGGAATT CTTATAATAT TTGTAATTAC CCTCATAACT TTTTTTTTGT
16021 CCCTACTTCT GTGCTTCTCT AATATGCAGA TTATTAAATG TTGTTACAAA GCCATTGTCA
16081 AAAAAACAAA AAACAAAAAA CTAAACAAAC TCACATGGTT AGACTTGCTC CTTTATGAGA
16141 TATTTTTACC AAAAATGGAG GAGTTGAAAA ACTCTGGTGC CAGAAATCGT GAAGACATGG

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16201	CCTACCTAAC	ATGGAAATGT	TGGTTGTCAG	TGGAAAATAC	TACACAGAGA	TAGCCATAGT
16261	GCTGCACAGC	CAATCTTAAG	TGTTTCTAGA	GAATCACTAA	TTGTTTCTAG	AGAATCACTA
16321	ATTGTTTTCT	TTTAACATTTC	TTGGTTTATA	CAAGAAGAGA	GTATCCATAC	TAAACTCTTT
16381	TCTACTGAAA	ATAATGTGCA	AACATAACAT	CCTATTCCTA	GACAGTTTGT	AGTTTTTTTC
16441	TCCCATTTCT	ATTTTATAAA	TCATCTTTTT	AAAATACTTT	GTTGAGTGAA	ATCAGTCCAT
16501	TGCTTGATAT	ACCTTGAGCA	CAAGTAAATA	GTATGCCAAA	AATTAAATGT	CTTTTCAGTCA
16561	CAGTTTGACA	AACTCAACTA	CCCTGAGCCT	ATAGAGTGGT	AATAATTGCC	CTACTCATAA
16621	AGATGGGGTG	AAGATTAAAT	GAAATAGCAC	CTATAGAACA	CTAGTTCCAG	ACGTGGTATC
16681	ATGCTAGTAA	AATGGCTGCA	CAGCACTGCT	CAATGATGAC	AAAAAGTGAA	GCTTCTGGAG
16741	ACAGACTCCA	AGTTTGACTC	CCAGATCACC	ACATATAAGA	TGTGGGACTC	TGAGGCAGGT
16801	CATTTAATCT	CTCTGTGCAT	TAGTATCCTT	CTCTATACCT	TTACAGTGAT	GGTAATAGCA
16861	CCTACCTTCT	AGAAGTATGT	GAAGATTAAA	GATCCTTAAT	GCATATAAAC	CACTGTGTTT
16921	ACTGCTGTTT	GACAAATTTT	ATTTATAACC	ATCTTTACGC	TCCTAAAAGG	ACTTGAAGCA
16981	GCTTATGACT	GAAGACTTTG	GTAGGAGTTG	GCCTTCTATA	AATTATAAGA	ATTTCATAAA
17041	TTATTTGATA	TGAAAATGCC	AGTTGATCAT	AGTATGTTTA	CCGGGGTCCA	ACAGGTTGAG
17101	AAAAAATACA	CTTTTTTTCC	CTGAACATAT	GAAATTAGCT	CTCTAGGCAT	ATTCCTAAGG
17161	ACTTAAAGAA	TGATAACTAT	CATTTCTCTT	AAATCTTCCA	GATTTGGAAG	GATATATATA
17221	TTCAGCACAT	TGACAGACAA	TCCCAGTAGT	CCTAAATTAA	AAGACATTAA	AAATTAGTGA
17281	AACTTTTCCT	ACCTTTAGCC	TGTGTAATCC	TGGATGACCA	AGCATAAAAT	TAAATTGAGT
17341	AGAGTATACC	ACTGTAACAT	TTCCTGAAAG	GTATTCTAGG	CTCTGAGTAA	TTTCTTTGGG
17401	GTCTGAAGAT	CAGTTTGACA	TATCCTCAAG	TATCATGAGT	TCATTATAAT	TAAGAAAAAG
17461	AGAGTAAATC	TGGAGAATGA	GCCACTTTCT	TACTACTCCT	TGACCTCAGT	TCTTTTTTTC
17521	AGAGACAGGG	TCTCACTTTG	TTGCCCAGGC	TGCCAGGCTG	GAGTGATGTG	GCGCAATCGC
17581	ATCTCATTGT	AACCTCCACC	TTCTGGGCTG	AAGCCATCCT	CCTGCCTCAG	CATCCTGAGT
17641	ATCTGGAACC	ACAGCAGGTG	CACACCACCA	TGCCAAGCTA	ATTTTTTAAA	AAGTTTTTTG
17701	TAGAGATGGG	GTCTTACTAT	GTTGCCCAGG	CTGGTCTCAA	ACTCCTGGGC	TTAAGTGATC
17761	CTCCTGCCTC	AGCCTCCCAA	ATTGTTGGGA	TTACTAGTGT	GAGTCACTGT	ACCCCGCCCC
17821	ACTTCAGTTC	TGAGGAGGAA	AAAATATGTA	ATAATAATGG	GACTTTGGTT	TGCTGATTTA
17881	AAGATTTCATG	TAACCTTATC	ATCCAATGCG	CAATTTGTAG	AATAATTAAT	AGAGACATCT
17941	GGTCTCATGT	TTCTACAGTT	GCTCATGCCT	TGATAGTAGA	TCTCCTTGCT	GCTGGCTCAG
18001	AAGGGTAAAA	GAGCAGAAAT	GATGGGGCTT	CTCTCATTCT	ATGAGGAAAT	AGACCTATGT
18061	AGAGGAGGCT	ACCTGTGGTA	AAACCTTATC	CTCATCACTT	AAAATTCTAG	GCTTATTCTC
18121	TGACCATATC	AAGTTTTCAA	ATGGTAAAAG	AATTGGATTTC	AAGAGAAAATA	TGAATAAACT
18181	TTTGTTTTCA	CTTTTCTCCC	TCCTCTCCCC	CCATTCTCCC	TTCTTTTATT	TTCTTGCTCT
18241	TAGTTTTCTT	TTCACTTTTT	TGTCTACTAT	TATTTGCCCA	AACTCAACTG	TAGGCTAGAA
18301	CAAAAAAATA	TTGAAAATTA	AAATGTGCCC	CTTTTGTTGT	TAGACTTGCT	TAAACAATTG
18361	GGGTAATGAA	CCTTGGACAC	TAGATTTTAA	AACACACACA	TTTGAGCTTC	AGTGCCTGA
18421	AATAAATATA	TTTTTAACAA	TTAAAAATA	AAATTGCATG	TTTAAAAAAT	CTGCAGAGAA
18481	CAATACACGT	TGTGAGATCT	TGAATGGAAG	GAAAACCTGCT	AGCCTCAAGA	GTGGATCAAA
18541	GATGCTCAGC	AGGCAACAGA	GTAAGAGCAT	GTTGGAGGGT	TTAGAGAGTG	TGCTCAGGGT
18601	TCTAGGCTCT	AAAAATCAGA	CAGTCCCCAC	GGCCTGGCCT	TCGTCGCTGT	ATCTTCTTTA
18661	TGAAAAACAC	TAAGTCTTTT	TCCTCACTGG	ATAAATTTTT	ATCCTTCAAG	TTTAGATCAA
18721	ATGGAACTTT	AGGACACTGA	CTAGGTTACA	TTCATCTTTT	AAGAGCGTAC	AGACATTCAA
18781	GGGCTAGAGG	ATGTGGGTTT	ACTGCACAGG	CTCATTATCC	AACAGCTGTG	CTACCTGGGA
18841	AACTTAACCT	CTCTGTGCCT	TAATTTCTCT	ATCTATAACG	CAGGGAGAAT	GACAGTAGGT
18901	ATCTCATAAG	GTTGTTGGAA	CAACTAAATG	CATTGGTATC	TATTGTGTAA	AGTGCTTAAA
18961	ACACTGCCTG	GCACAGAGCA	AACATCCAGT	GAACTTTAGC	CATCATCATT	ATCATTGTTC
19021	TCAGAGTCAA	ATACAATATC	TCATATCTGA	TAAATTACAG	AAGTGAATCA	ATCACTCTCT
19081	CTCTTTTCTC	CAGGGGGAGA	CAACAGCTTT	TAGACATATC	TTTTCCAACA	GTCGTCCTG
19141	CTGGACACTG	TTTCATCTTG	CAAATAAACC	AATGAAAATG	AGTGATCCTA	GAAGAAGATA
19201	AATGGAGGTA	TTTTGAACAA	TCAAAGAAGG	ACAAATGAAC	ACCTGGCTGA	GAAAAATTAG
19261	CTCTTTTTTC	TATGCATAAA	ACTATTAAAA	TATTCTTCAT	AGAAATTTAT	GACACAGGAA
19321	ACATAAAGAC	AAAATTAATA	TAACCTCTAG	TATCTCCTAT	TCTTTTTATA	TGTATATTAT
19381	ATATACTCAT	ATTCATATAT	ACATATATCT	CACATCATGT	ATCATATATA	AAATAAAATT

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19441	AGGTGTCATG	ATATATATTT	AGATAAATAT	ACTTAGAAAAC	TTTTTTATGG	ATGTATAAATT
19501	TATGGATATA	TTGATAATTA	TGTATTTGTT	ATTGACTACT	TCAATTGATT	CCCATTTTTTA
19561	TGCATTATAT	TATAGATTAT	ATAGCTCACA	CATCTTTGTA	CATAAATCTT	TGTTCAAATA
19621	TTATTTCCCTA	AGGATAGACT	TCATGAAGTG	GAAATACTAA	ATCAAAAGTG	AAAAACATTT
19681	TCTAAGGTTT	TTAACATATA	CATTGCCAAA	TTGCTATTCA	GGATCATACC	AATTTATAAT
19741	CCCAAAATAA	TATGGAAATT	CCTGTTTTAT	AGCACTCATA	TTTACAATAA	ATTTTAAAAA
19801	TCACTGTTAA	CCTAATAGTC	CTTCAAAAGA	AAAAAAAATT	GAAATTACAT	TATTTTAAATG
19861	ACTCTATTAG	TGAGGGTCAT	TCTTCCCATG	TTTCTTGTTA	GCCATGACCC	TATAAGAAAT
19921	AAACTGCACT	GCAAAATGAT	AAACATGACA	TCAATCATT	CATGGGAAGG	CACTATATAA
19981	AGAATAATAC	CTTAGGTTAA	GGCCACATAA	ATATTTATCA	GGTGCCTTTT	CTGCGGAGGA
20041	CTCTGAAGGG	ATACTAACT	GCATTTAGCT	GCATGCAACT	GAACTACTT	TTACCTACAT
20101	TGTCTCTTAT	AAACATTATA	ACTACTCTTT	GAGAAAGTGT	TTACTATGGA	CTGAATTGTC
20161	TCCCCATCCC	CCCAAATTCA	TATATTGAAG	CCATAAACCC	CAATATGACT	CTATTCCTAG
20221	ACAGGACTTA	TAAGAGGTAA	TTAAGGTTAA	ATGAGGTCAT	TAGGATGGGT	TCCTAACTGG
20281	ATAGGATTGG	TGGCCTTATA	AGAAGAGGAA	GATTCTGCAC	TTGGTCTTCC	AAATTAAATA
20341	ATTTATTTTAA	AAGAAAAAAA	AAAAAGAGGA	AGAGAGGGAG	CTCTGCACAT	ATACTGAGGA
20401	AAGGCTATGT	GAGCTCTCAC	AGTGAGAAGG	TAGCACTCTA	CAAGCCAGCA	AGAGAGCCCT
20461	CAACAGAATC	CAGCCATGCT	ATACCCTGCT	CTGAGACTTC	CAGCCTCCAG	AACTGTGATA
20521	AAATTTTGTT	GTTTAAACCA	CACAATCTAT	GGTATTTTTT	TATGGCAGCC	CAAGCCAACA
20581	AAGACAGCAT	CATTGCTGTC	ACTTACAGAC	AAGAAAACTA	AGACTAGGAG	AGAGAAAAGT
20641	TAAACTTGTC	CAAGGTCACA	AAAGCCAGAA	ACAAGTGAGG	TGAGAAAGTG	ACCTTGTTCT
20701	CCTCAATCCA	AGGCCAGGAC	TCCTCCACTC	CACATGTAGA	TAGCCACCTC	ACAGTCAACA
20761	GCCAAATGTC	CACACCCAG	AGTCAGCATT	AGACCAAGAT	GTCTTACCAG	GAGACAAATG
20821	CCTCATCTTG	AATAAATATG	ATCTAACAAC	TTACCCATGT	AAAACATTGA	ATCTCATGAG
20881	AAACAAAAAT	GCAAAGTATG	TAGAAAACCTA	TGTTTACCAC	TTAACTGACA	GTGATAAAAA
20941	GCTTAATGAT	ATCCTTATAG	TCTTGGAGGG	GTTTGTATAT	GTGGTGAAAC	AGGTGCTCAC
21001	GCACTGCTGA	TAGACTGTAA	ATTGGTCCTA	GAGAGAAAAA	TAAATAAACT	GGAAGGAGAT
21061	ATGCTGTATG	TTTACTTTT	TTATGGAAAC	ATATGATATA	CCTGGAAATT	CGATTGACCA
21121	TGCATCTATT	TCTTCAATGG	GTATGCCACAG	TTGAGCTGTT	CCCATGCACC	AGGCACTGTA
21181	ATGGGACAAC	TGCACATGAC	AGTCAAAAAT	CTCAGTCTCA	TGAAGTCGAG	ATGCTCATGG
21241	AGAGGTGCTA	CCCACTAAAC	TAATATTTGT	ATATCAATTA	TGGATACATT	GGGCCACATT
21301	TACAGAAATT	CACCTACAGT	GGGTTACCAG	AAGGGATTTT	TTTTCTTGAT	TGGCAAGAAG
21361	GCTAGGCTGT	TTTGTTGGGG	GCTGGCAGGA	GCTGTCTAGG	CTGCCCCAAGT	ATGCAGGTCT
21421	CTTCTATCAT	CCTGTGTTAA	CCATCTTCCA	TGTATCTTTC	AACCTCATGG	TCATCTGCAG
21481	CATGTCTAGG	GGTCATATCT	ATGTTCCATG	CAGGAAAAAA	GGGTAAAGGG	AAAGGGAAGT
21541	AGGCATGTAC	CATTTTAAATG	CACACCTTGG	TTTTTCAGAA	ATTTAAGAAG	AAAGACTTTC
21601	TGCTTTTCTC	TGACTATTCT	GTATTCTGGA	TTACAACGCA	ACAGAAACGT	CACCTTAAAT
21661	TCTAATGTTT	TTCTCTCCTT	GCTTTCAAAA	ACTGACTCAT	TAACCTCCAC	GTGGCTTGGA
21721	AAAATTATTT	CAGTCATCCA	GTAATGAGCT	GTTTCATAGAA	ATGTTTTTGA	CATCAAGTCT
21781	GTGTTGTTAG	CATTATACAT	GTTAAGCATT	GAATAAAAAA	CAACATGATG	TGGGTAAATT
21841	TCTTTACTTA	CATATAAGTA	CTTATATACT	TATAGCTGAA	AAGAGAGGTT	GAAATGTCAG
21901	GTGGAACAGA	AATAAGATTA	CCTAGATGTT	TCTCCTATGG	GTGATTTTCA	GCTATGCTGA
21961	TCTTTCTTCT	GGGTCAGGTA	CTCCCAGAAC	TTCTTAATTA	AATGGTGGCC	CTGATCTTAG
22021	TTCCTCTCTC	CTCTTAGACA	TTTTCCAGGA	CTACAGAAGA	TGTGCAGTTT	ATAAATGAGT
22081	AGCAGAAACC	TACTGAACAA	ATTATTCAGG	CTCATCTGAA	CAGAGAGGAC	ACCTTCTCTG
22141	CTATACTCTC	TCAGTGATTT	CCCTGCCTTG	GGGTCAATTA	TTGTCTTGGA	CATTGATTTA
22201	AGCACATAAT	AATTGTTGTC	ATTGCTTATG	TTTGGATTTT	ATCTCCCAA	ATAGATGGTA
22261	AATTCTTTAG	TTTAGAGACC	AAGTAATACT	TAAAAAATAA	TTTTGTGTGT	GTGTGTGTGT
22321	TTTTCTGTG	TCTCTCAGCC	CTGTAATAGC	ATCGTACTTA	CACTTGTTAG	ATTTTATAGAG
22381	ACAACCTTTA	CAAAACATGG	AATTATCTAC	ATACCTTTT	TACAAAACAG	ACAAATTAAA
22441	TACTCAGTAG	TTGAACCAA	AAAAGCAGTT	CAAAATAAAT	ACTTGAAAAT	GAAGAAATCA
22501	TTTGAACAGA	GTAAAGTTA	ATCGTAAAT	AATGTCTGTA	AAAATTATTG	CCAATCAAAT
22561	ATAAAGTTCA	AAAATAGTGC	TTGAAAAAGG	AAGAATCATA	TGAAAAGGGA	CTACTCATTT
22621	TAAAAATGTT	AGATATCAGG	AAAAGCCAAG	AAGTGAGTAT	GGTAAGAGTG	CTGTCAAGTG

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22681	AAACCCTGCT	AATCTCACTG	AACATGTAAA	AATCTGTAGA	TGCCTTTATT	TTATTCACCTC
22741	ACACACATAT	GTAGAAAGAG	AAATATATGG	TAAACATTAA	AAAAACCAA	TTAGAATGTA
22801	AAATTAATAC	TTTAAAAAAT	GGGCTGTATA	CTTTTCTTAT	CACCGGAGAT	AAGAATTTAT
22861	TATTTTAAAA	ATAAAGTTAT	TTTCTCTGTG	ACTGTTTCCA	TGACTTTGCT	ACTTAGAAGT
22921	TAGAGATGCC	AAAGTTTATC	TAAGAAAATG	TTTATGGAAA	TATTATTTCA	ATAATGAATG
22981	TTTAGAAGAC	TGAATTTCTT	GACTGGGCGC	AGTGGCTCAT	GCCTGTAATC	CCAGCACTTT
23041	GAGAGGCTGA	AGAAGGAGGA	TCGCTTGAGT	CCGGGAGTTC	AAGAGCATCC	TGGGCAACAC
23101	AGCGAGACCC	TGCAGCAAAG	TAAAAAGAAA	AAAGAATTGA	AAAAGGAAGA	CTGAATTTCC
23161	TTTGGGCAAG	TCATGTGACA	TTCTGTGCCC	TCAGTTTCTT	CATCTATAAA	GTTAATTCCT
23221	ACATTTTGGG	GGAAGGGAGA	GAAAACTTA	GGATAGTGAC	TGGCACAGAA	GAAGCACTAT
23281	ATACTATATA	TATGTGGATA	TCATTTGTTT	TTATGGTACC	ATTTTAGCTA	TCTAATGCAA
23341	AATATGAATC	TTTTTTTTCT	GGGTCTTAAA	TTATGGAATG	TAAGAATTTT	CTAAATTCTC
23401	TAATTCTGTG	TTAGTTTTAA	AGCAATGGAG	TAACGTATCT	GTCAACTTGT	AAATATAAGG
23461	ATCAACCTGA	TCCACAATTT	GACCCCTAGC	CACTAATATT	TAATAGTACA	ACACTCAGAA
23521	ATTACCAAAG	GTCAGAGAAG	CCAAACAAAT	GTAAAAACAT	ACAGGTGCTC	AGAAAGATGC
23581	ACCTGTAATC	TCTCTAAGGA	GAAATATTTT	CCAAACTGAG	TGACACGGTG	CTTTAGTGAG
23641	TTGTGGAATC	AATCTCATGA	TTTCCAACCT	AGTGTTCCTT	TAAAAATGAA	CTAGTCCACA
23701	GTAGAATATA	CTAAAGTGCT	GGTGCTTAAG	ATAGTATTGT	TTTCTGGAAA	AAAAAAAAAA
23761	ATTTTTTTTT	TTTGAGACAG	GGTCTCGCTC	TTGCCCAGGC	TGAAGTGCAG	TGGCACAATC
23821	ATGCTCACTG	CAGCCTTGAC	CTCCTGGGCC	CAAGTGATTC	TCCCACCTCA	GCCTTTTGAG
23881	TAAGTGGGAC	CACAGGTACG	TGCCACCACA	CCCGGGTAAT	TTTTTAATTG	TAGAGACAGG
23941	GTCTTGCTAT	GTGCTTAGGC	TGGCCTTGTC	AACTCCTGGG	CTCTAGTGAT	CCACTAGCCT
24001	CAGCCTCCCA	AATTTATGGG	ATTATAGGCA	TGAGCCACCC	TACCTGGCCT	GTTCCCTGAA
24061	TTTTTTTTTT	TTTCAGGTGT	TTGTGCATAT	GTGTGTGTGT	ATGGGTATAA	CAGAGAGACA
24121	GAGAGAAAGA	AACTTTTCTA	TCTCACTTTG	CAATCAGAAG	TTTGAAGTCT	TATCTTTTGG
24181	CTTTTGTTTC	AGAAATATTT	CAAATGTAGA	CTCTCTCCTT	TACCACACTG	TCCCCTTAGG
24241	CAAGGTCTTT	GCCATTCTTC	TGAGACTATT	GCAACAGACT	CCCAACTTCT	GACTGTGGGC
24301	CCTTCTCAAA	AATGATTGTT	TATGCAATAA	ATCTAAACCC	AAGACAACCTA	CAACAATACA
24361	ACAAATTCTC	CTCTTAAAAA	TTTCCAATGT	CTGCCGGGCG	CGGCGGCTCA	CGCATGTATT
24421	CCCAGCACTT	TGGAGGCAGA	GTCGGGCAGA	TCACTTGAGG	TGGGGAGTTC	GAGACTAGCC
24481	TGGCCAACAT	GATGAAACCC	CATCTCTACT	AAAAATACAA	AAAATTAGCC	AGGCATGGTG
24541	GTGGGCGCCT	ATAATCCAG	CTAATTGGGA	GGCTGAGGCA	GGAGAATTGC	CTGAACCTGG
24601	GAGGTGGAGG	TTGCACTGAG	CCAAGATCAC	ACCATTGCAC	TCCAGCCTGG	GCAACAAGAG
24661	CAAAACTCTG	TCTCAAACCA	AACCAAAACA	AAACTTCTAA	TATCTACCAA	ATGTTTCACA
24721	CAAGTATTTG	GGGATCTTCA	CAATATGGCC	TTATGGAGTT	TTCTTTTGCT	GAGACCCTAT
24781	GCTCTGGCCA	CACTAAACTC	ATTCAGCATC	CCAGAAAGGC	CTCAGCCTTT	GTGAGCAAGC
24841	TCTTATCTCC	AGGCCTCTCA	CAAAGACCTG	TTCCAGTAGA	AGCTCAGGGG	AGCACACTGG
24901	ACATTATTCC	AACAACCCTT	TCCCCACAGC	TATGCAGCCA	AATCTGCCAG	CTCAGTTAAT
24961	TAATTAAGCA	ATTCAGAGAT	GAGGGTCTGC	CCAGGCTGGA	GTGCAGTAGC	TGCGACCTCA
25021	AGCTCCTGGG	CTCTAAGTGA	TCCTCTTCAG	TCTACCCAGA	AGCTGGGACT	GCAGGCATGT
25081	GCCACCACAC	CCAGCTAATT	TTTTTTTTTT	TCAGTAGGGA	CCAGGCCAAC	CTAGTCTTGA
25141	ACTCCTGGCC	TCCAGCCTTC	CGAAGTGCTG	TAATTACAGG	CATGAATCAC	TGCGCCACAG
25201	CAACCCGCCC	AGTCTTGTTA	GACATGGGGT	CTGTAGTTTC	TAGTAGGTTT	TTGAGTCTAG
25261	GGTTCCTACC	TCATGTTTTA	TAGTTAATTT	AGGGGAGGGA	CTGTGTCTGT	TTATCTGGGG
25321	ATGTAGGGGT	GGGCAGGGGG	ATAGAGGGGA	CTTCAATTAA	TGAAACCAGA	AGCAAACTC
25381	AGTTGAGGAC	ACCGGTCATG	AGAGTGGCCT	GATTATGGCC	AATCTTACAT	AATGTGTGAG
25441	ATCTTGATAT	TACCCCATCC	TTGAGAGTCC	TCTATAAAGC	TACAGGGACT	TGGGAGCACC
25501	TTTAATTACA	GACAACCCAT	GTTCTGTGG	ATTATGATTT	ATTAGATTGC	ACATGCCTAA
25561	ATAAAGACAT	CCTCTGCAGT	CTTTTGACAA	TTCTATAAGC	ATCTTCTGAC	TCCGCAATTA
25621	GACAGCTAAG	AGATCTGTGT	TACTTCCCTC	ACATATATAA	ATAATTTTAA	ATAAAAAATCA
25681	TGGCGTGAAT	AATTTCTTTT	CTCTACCGAT	TTGAAGCTAT	CCATTTGGAA	GACCACTCTG
25741	AAGAGATGAA	ATAAGTCTTC	TGCCAAAGAT	TACTTATTAA	TTTACAAGGA	AAAGGGGAAG
25801	TTTTGTTCCT	CTCCGTGAAT	TTGATTGAAA	ATCGAGGGCT	TTCTCGAATA	GTTTTGGCAT
25861	CCAGGGTCAT	TTTTCATTAA	AAAGAGAAAA	GTCATGTCAA	ATATGAATTT	CCGCAGATTA

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25921	TTCAGCACTA	GACCCTGGGA	GATTCTGTAA	AGAGGGGTTT	TGTTATACTC	AACTTTTCCG
25981	GGTAAAACAA	ACACAAATAC	TCCTCCTCCA	AGGGGCGGGG	GCGGTGCCTA	GGTGATGCAC
26041	CAATCACAGC	GCGCCCTACC	CTATATAAGG	CCCCGAGGCC	GCCCGGGTGT	TTCATGCTTT
26101	TCGCTGGTTA	TTACATCTTG	CGTTTCTCTG	TTGTTATGTC	TGAAACCGTG	CCTGCAGCTT
26161	CTGCCAGTGC	TGGTGTAGCC	GCTATGGAGA	AACTTCCAAC	CAAGAAGCGA	GGGAGGAAGC
26221	CGGCTGGCTT	GATAAGTGCA	AGTCGCAAAG	TGCCGAACCT	CTCTGTGTCC	AAGTTGATCA
26281	CCGAGGCCCT	TTCAAGTGTC	CAGGAACGAG	TAGGTATGTC	TTTGGTTGCG	CTCAAGAAGG
26341	CATTGGCCGC	TGCTGGCTAC	GACGTAGAGA	AGAATAACAG	CCGCATCAAA	CTGTCCCTCA
26401	AGAGCTTAGT	GAACAAGGGA	ATCCTGGTGC	AAACCAGGGG	TACTGGTGCT	TCCGGTTCCT
26461	TTAAGCTTAG	TAAGAAGGTG	ATTCTTAAAT	CTACCAGAAG	CAAGGCTAAA	AAGTCAGTTT
26521	CTGCCAAGAC	CAAGAAGCTG	GTTTTATCCA	GGGACTCCAA	GTCACCAAAG	ACTGCTAAAA
26581	CCAATAAGAG	AGCCAAGAAG	CCGAGAGCGA	CAACTCCTAA	AACTGTTAGG	AGCGGGAGAA
26641	AGGCTAAAGG	AGCCAAGGGT	AAGCAACAGC	AGAAGAGCCC	AGTGAAGGCA	AGGGCTTCGA
26701	AGTCAAAATT	GACCAACAT	CATGAAGTTA	ATGTTAGAAA	GGCCACATCT	AAGAAGTAAA
26761	GAGCTTTCCG	GGAGGCCAAT	TTGGAAAGAA	CCCAAAGGCT	CTTTTAAGAG	CCACCCACAT
26821	TATTTTAAGA	TGGCGTAACA	CTGGAAACAA	GTTTCTGTGA	CAGTTATCTA	TAGGTTTAAG
26881	TTGTGATGCA	GCTGAGTTGA	AAAGGCTTGA	GATTGGAGAA	TTAATTCAGG	CCAGGCTTCA
26941	AGACCATCCT	GGGCAACATA	GCCAGACTAC	CATCTATACC	AGGGGTCCTC	ATTCCCCCGG
27001	CCACCGACCG	GTAACCGGTC	CCTGTCCATG	GCACGTTATG	AATTGAGCCG	CACAGCTGAG
27061	GGGTGAGCGA	ACATTAACCA	ACTGAGCTCC	ACCGCCTGTC	AGGTTAGCTG	CAGCATTAGA
27121	TAGATTCTCA	TAAGCTCAAA	CTGTATTGTG	AATGGCACAT	GCAAGGGATC	TAGGTTTCAG
27181	GCTCCTTG TG	ACAATCTAAT	GCCTGATGAT	CTGAGGTTGG	AGCAGTTTTA	GTCCGGAAAT
27241	CATTGCTCCC	AGCCCCTGCA	CCCCCTGGTC	CGTGGTATAA	TTGTCTTACA	CAAAACGGTC
27301	TCTTGTGTCA	AAAAGGTTGG	AGACTACTGG	TTTTACAAA	AAGTAAATTA	GTCAAGCATG
27361	GTTGGCACGC	TCCCTTAGTC	CCTGCACCCA	GGCGTTTAAG	GATACAGTGA	GCTATGATGG
27421	TGCTACCTCA	CTCCAGCCTG	GGTGACAGCG	AGTCAGACGT	TGTCTCAAAA	CTTAAAAAAA
27481	AAAAAAGTTA	AAACAGAAAA	AGGGCTTCTT	GTCAGAGACT	GCCGTATATC	TAGAGGTCCA
27541	GGAACATAAA	AGTCTGATGT	CCAATCCGTA	AAAGCTCGAT	GGTGCACATG	AGGAGGCTTT
27601	TACATGTAAG	AGCATCTAAG	TTCTGGAAAT	GCCAGTGTCA	GGGAAGGGAA	TGGGAGAGCA
27661	ATTTGGCATC	CAACATAAAC	TTGCTGATAC	TTTTTTTTTT	TTTAACACAA	GTACTACATT
27721	CTAGTCTTTC	TGTGGTGTCA	TTGTAACAT	TGTTTCTTAA	TATGCTATCC	ACTGACTTCA
27781	AGGGATCAAT	AAATAGGAAT	CAAGGTGTCC	CAGAATATGG	ATTAGGGGAG	TTTTTTTGTT
27841	GTTGTTGTTG	TTGTTGTTTT	TCATCTATTC	ATTATCCTGT	AGCTGAAATT	TAGAATTTTC
27901	TTCCATTGTG	TGTGACTGAT	AGAAATAACA	AATTTGTAGG	TTATAGTTGT	TGCAAGAATC
27961	TGGAAATCGT	GCTTGCTTAT	TTCCGAAGTA	CTATTAGGTA	TATCAACAAA	AACACACATA
28021	TTACGGTCAA	GTGGTTTGAT	AATTATTTTA	ATATTATTGG	TCTAATACAA	TTGTAACCCCT
28081	ATGAATTACT	TTAAGTATCT	TATTTATGAA	AAGAATCTGT	AAGTTTCATC	AGACTACCAG
28141	AGCATACCGA	AGACTGAAAA	ATTTTAAGAA	TCCAAACCTT	AATGGAAATG	TTGGAGGCTG
28201	CCCAATTAGG	TTCTGAATTC	CACCTTCCTG	AATCACAAAC	TTGTTTAAAC	TCTCAGTCTG
28261	AGGTAAACTA	CGTTTCTCTT	TAAACAGACA	TAGTTTAATT	TTCTTTTGAT	TTTTGATTTA
28321	GTATTCTTAC	TGATCATCAT	AAATAACCAA	TGCTAATGTT	AGTCTACTTT	GGACCATGGT
28381	ATTTGAGAGAA	ACTTTGAACA	AAGTCCCCTG	CAAAACTATG	CATTGCATTA	TTTCACATAC
28441	ATTTATGTTT	TCCAGACGGT	TCAATAGTAC	CTCACTTTTC	TGAACCTTAT	TGTATAGTTT
28501	GGCATCTTTT	TAAAAATTGT	GTCCTATAAT	GAAAGGTTGT	AAACATTATG	TTTTAAATTT
28561	GTATAGATAA	AATCAACCAC	AGACCTTTCC	TTGCTTGGAT	GTAATTGCCA	TTGTTTCCCA
28621	ATGAGTTCGG	AATTACTAGG	ATTGTGCAAA	AATATGCCTC	ACTTGCCTGA	CATAGCAGAG
28681	AGCCATTTTG	CCTAAATGCT	GTGCCCAGCA	ATGGACTGTC	ACCAGATTCT	CATCACATAC
28741	AGTGAGGATG	AACAAC TAGC	CTCTCCCAGC	AGCTGGCCGG	TCTCTCAATA	ATATGGGACT
28801	CCCTCAAGAT	GGCTTCCTGC	ACCTTTGCTC	CTCTAGCCTT	GTATGTATAC	AAGGCTAGCA
28861	TGCCTGGCAT	ACATAAGGTT	AAAAACAAAA	TCAATAAGTT	ATGGTTCTTC	CTCCAGTTCT
28921	GGGGATTATT	AGACCACTTT	TTTGTTTTGT	TTTGTTTTGG	ATGGAGCCTC	GCTCTGTCAC
28981	CCAGGCTAGA	GTGCAGTGGC	ACAATCTCGG	TTCACTGCAA	CCTCTGCCTC	CTGGGTTCAA
29041	GCAGTTCCT	GGCTCAGCCT	CCCACGTAGC	TGGGATTACA	GGTGCCCGCC	ACCACGCCCC
29101	GCTAATTTTT	GTATTTT TAG	TAGACGGGGT	TTCACCATCT	TGGCCAGGCT	GGTCTTGAAC

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29161 GCCAGACCTC GTGATCCACC CACCTTGGCC TACCAAACCTG CTGGGAATAC AGGCGTGAGC
29221 CACCGCGCCC GGACTTAGAC CACTTTGTTT TGGCCAATAG GACAACAGCC ATAGAACCCT
29281 CCGCAAATGA GAGCTTGTCC CTAAAGATGC TTTATTTACA TAGCTGTGTG CCGCATGAGC
29341 CAAAAGGTGA TAACCTTTGT TCAACACGCG CCTCCAGCCC TTCGGTTAAG TCCAAAGTAC
29401 CATTCTTAGA ATGCTCTAAA ATACATAATT TTTTTTTTTT TTTTTTTTTT TTTTTTTGAG
29461 GAGTCTCTCT CTGTCTCCCA GGCTGGAGGG GAGTGGCGCG ATCTCGGCTC ACTGCAATCT
29521 CTGCTTCCGG GCTAGCTGGG CCTACAGGTG CAGACCACCA CGCCCGGCTA AGTTTTGTAT
29581 TTTTTTTGGT AGAGGGGGTT TCACCATTTT GGCCAGGCTG GTCTCGGATT CTTGATCTCA
29641 AGTGATACAC TAGCTTTGGC CTCCCAAAGT GCTGGGATTA CAGTCGTGAG CCACTGCGCC
29701 CAGCAAATAG CTTTTTGTGG AGCCAATCAC TTTATTAGCG CTTACCTCTC TATGCCTACT
29761 TTATGCTTTG AAATTTTGTG ACAGTGTGGC CGGTCATGGC AAACACAATT CATTCTTATG
29821 CAGGATGTCA CGGTTATTTT TGTCATCCAA ACTCATTCTC GCAACGCATT TCAGCTCTTT
29881 AAACGACTTT GTGAGCGGCC CTGAAAAGGG CCTTTGGGTT TTTTTGTTTT TGTTTTTTGA
29941 AGTTCTCAGG AGACCGCGTA TTCTTAGATT CAGCCGCCGA AGCCATACAG AGTGCGCCCC
30001 TGACGTTTTA GGGCATATAC TACATCCATG GCTGTGACAG TTTTGCGCTT GGCGTGCTCC
30061 GTATAGGTGA CGGCGTCTCG AATAACGTTT TCTAAGAAAA CCTTAAGCAC ACCTCGAGTC
30121 TCCTCATAGA TAAGACCGGA AATGCGCTTC ACGCCACCGC GCCGAGCCAA ACGGCGAATA
30181 GCCGGTTTTG TAATGCCCTG GATGTATATC CGGAGCACCT TACGATGGCG CTTAGCACCA
30241 CCCTTCCCA AGCCTTTTCC GCCTTTGCCG CGACCAGACA TGATTCCATG CGCAGTGGAA
30301 GGTATGAAGT GAAACAGTTC CTTAAATACA AACTTGGCGG ACCTGATTGA AAACAACATG
30361 AGTTGGCGCG GTTTTTTTTT TTTTCAAAT TTGGTCACCA AGTGGGTGGA GCAAGAAAAA
30421 CTGTTTCATT ATGGTTCATT GTTTTGATTG GCCAGTGACA GCTTGCTCTT TGTGGGAGTG
30481 GAAGGGTGTT TGCAAGTTGA ATGCGCTGTA TTCCTGTCAG CTTAATGACG CTAAGCATAG
30541 CCCCATTTCA CATTTCCTTT TATTCCACT TGCTAACTAA TAAATTACGG AATAGTTTAT
30601 TGGGGAACAT ACAAATAATG TTTAAAGGAG GTCAGATTTA TAGGTCAAGG GATTACCCT
30661 CCCAATCATT TTAATATTTT TATTTAAACC AGGCATTTTG ATGGCCTTCT CTGTGCTGGA
30721 CAAGGTATAA GTTTGGCTAT GAAGTTTCAC TCCTAAAGAC CCTATGTTTT GGGGAAGCAA
30781 AAAGGTAGCC AAATAATTGC AAATTAACAC CTCATAAGTG CAACTTCTT CCTCGTCACT
30841 TTCCCTATCT CGATTCAAAT ATTTGTTGAA TGACTCATT TTCTGCAAAA GTCTGAGAGA
30901 GACAGGGAAT ATAACTTAA GTCTGGATAA TATGTTTCC CGGGACGCTC TTCCTGGTCT
30961 GCTGTGCCGT TTTGCTGTGC CTGAAATTCC AAACACTCT CCCTTCCCTC CGTTTTTAAT
31021 CCCCTTTCAA CTTGCTACAG CTTTAGAGAA AAGAACATC GTTTTGATAC GTTGGGGATT
31081 AATTGAAGTG TAGGGCTAAT ACTTGATTAA GGTCATTACA AAATCTACAG GGTCTCTCTC
31141 TGGGAGGTTT TTGTGATAAG ATTATTGGTG TTAATAAAG GCTAATCCCC TTGAAAAATA
31201 AATAGAATAG CAGAATTGGG TCTGAATGTG GTTTGAAGAA AGGGACTTCT CAATTCAAAA
31261 TTTTATCTT AGCTTCTGCG GGGAGCTTTC CAGAATGCCC ATAAGATCCA CTTTTGTTTA
31321 AAAAAACAAA ACAACCCAC CCACCCTCT CTGGTTAATA AATGAATTTT TATTGGGAAT
31381 ATTTAGAATG GGGCTGTGGC CTGTGAGAGA CATTATATAG TAACCTCAGA CTTGCTCACA
31441 TGAAGAGAAG AAATCCAGGA ATGGAGAAAA AAGACCCAGG AAAGGCCAGA ATGCTCTACA
31501 TGTCATATTG TTTGTATCAC TTCTGAAATA ATTGATTACA TTCTTCTGCC CCAAATTGAG
31561 TTCTTAGGTT CTCCACTCA CTGTCCACAT GCCACAACAC AGACCTTATA ACTAGAGACT
31621 TAGCTAGGAA GAAATGTCAA ACATTACAGA GAAAAAATGC AGAGTCTGAG ATCATAAGTA
31681 AAACCTGAA ATCTCAACAT GCCTTTTAA TCATGAAAT AAAAAATATA GCAGCATATG
31741 CAATATGACA ATTCTCTGAA AACATACATC ATGTGAACTA CCCTGGAACA CATCTCGCCA
31801 AGTGCCATCT TCATTTTAAC CAGAGGTCTA GGATGCCCTT CCTTTATTTT GCCTATTATA
31861 TCATTTATAA AACCCCATTT TTATTTTGAT ATTTTATTTA CTTTCTATT CTGTCTCTTA
31921 ATATCTCCTT TCTAACTTT TCTCAATGAC AGTGACTCAA AAACAATGAA TGTGAGACA
31981 AATATTTAAA GGATCTGTAC ATGTAGATAT ATATATTTAA AATGGATTCT TCCACTCTGC
32041 GAAGAATTCA GGCATACTCA ATCTTATGGT TAGGGAGAGA TTAGGCTCAC TCGCCTAATC
32101 TGTATGGCTT CTCGTTCGCT TTCCATTTCA CTTTCTCTC ACCCATCAGA TCAAACATC
32161 TCATTGAACA AGAGACCTAA GCCCTTCAGA TTAATACTCT GCAAACAAGT TGTGGTTGAG
32221 AGGATACATG AAGCATTCAA ACAAATAAAT CTATGATATT AATCAGAGGT TAATCTATGA
32281 TATTAATCAG AGGTTAATGC AGTGGCTCAC GGCTGTAATC CCAGCACTTC AGGAGGCTGA
32341 GTTGGGAGAA TCGCTTGAGC TCAGGAGTTC AAGACCATTT TGGGCAACAT AGCAAGTCTT

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32401	CATCTCTACT	TAAAAA	TAACCAGAGG	TGTTATGAAA	ATATAAATTG	TCCAGAACTA
32461	CCCTCCACAA	ACTAACTCTC	TCAGAATATT	CGATATGAGG	AATGAAATAT	GGTGTGTGTG
32521	TGTGTGTGTG	TGTGTGTATG	TGTGTGTGTG	TGTGTGTGTA	TGCACCTATA	TATGGCACCT
32581	ATATATTCAA	CAAACAATTC	TGATAATTGG	CCAGGGTTGA	GAATGACTAG	CAGCCCAGCA
32641	TACACTATCA	GTTTTAAGTA	TATAATTGCG	CTTTAGTAAA	ATGTAAAGAA	ATCCCCAGAGT
32701	AGAAATACTT	TTAAGCTATA	TTACAGGTGA	GAAAATGCAT	AAGTATAGTC	TCACCCAACT
32761	TAGACTATGG	GGGCTTTATA	ATGTCACAAC	AGTTGTTTCC	AGGCATTTGG	GGACATCACC
32821	ACTGGTCTTG	GGCAAGAAAC	TCCTCTAGCC	AATGGCTGAT	TTATCTCACT	CCCATCTAAG
32881	GCTTCACTGC	ATTTCTCTTT	TTCAGCAACC	TAACCTATTT	AAAAATATCC	ATTTTCTGAT
32941	TCATTTTTTT	CTGAATTAAA	CTGTCAGTAC	CATTGGCACA	CCTTTGGTTC	CGTAGCATAC
33001	CTGTGTCTCT	GCTGTGTTTT	TTTTTTACCT	CCACTCCTTA	CTTTTCTAGA	AAAAAATCTC
33061	TGCTTTTTCT	TTTCAGTTTA	AATTATTTCA	CAAAAAGTTT	TCTTGACTTG	CACCTTCCTAG
33121	GCTTGCTGTC	CTTGTGTGGG	CACGCTCCCA	TAAACACTAT	TAATACACTT	CGATTTGTTA
33181	AAAATAAAGA	TATCTGGACA	GAAAATTTCT	TTTCTTTTTT	TAAGATTTTA	AAATTTTTTAA
33241	TGTTTTATTTT	TTTCCTAGAC	TGGAGTACAG	TGGCACCATG	ATGGCTCATG	GTAGCCTACA
33301	CTTCCCCGGG	CTCAAGTGAT	CCTCCCACCT	AGCCTCCCA	AGTAGCTGGG	ACTACAGGTG
33361	TGCACAACCA	CACCTGACTA	ATTTTGTTTA	TTTGTGTTGT	TTGTTTTTTG	AGATGGAGTT
33421	TCGCTCTTGT	TGCCCAGGCT	GGAGTGCAAT	GGCGGGATCT	CGGCTCACCG	CAACCTCTAC
33481	CTCCCAGGTT	CAAGCAATTC	TCCTGCCTCA	GCCTCCCGAG	TAGCTGGGAT	TACAGGCATG
33541	CATCACCACG	CCCAGCTAAT	TTTGTATTTT	TAGTAGAGAC	GGGGTTTCTC	CATGTTGAGG
33601	CTGGTCTGGA	ACTCCTGACC	TCAGGTGATC	TGCCCCCCTC	GGCCTCCCAA	AGTGCTGGGA
33661	TTACAGGCGT	GAGCCACCAC	GCTCGGCCAC	TAATTTTGTA	TATTTTGTAG	AGATGGGCTT
33721	TCCCTGTGTT	GTCCAGGCTG	GTCTTGAATT	CCTGGGCTTA	AGTGATCTGC	CCACCTTGTC
33781	CTCCCCAAAT	GCTAGGATTA	CTGGCGTGAG	CCACCAGGTC	TGGCTGGAAA	GATAATTTCT
33841	AACATTATCC	TCTCTTAAAC	ATTTGTTTCA	AAAATTTTAC	AAACATGAGA	GTAATTAAAT
33901	TTGATTTTCA	AAATTCCCTT	GAATACTTTC	TTAATAGCAC	ACAGAAAGCA	CAAAGTATTT
33961	TACATTTGTT	TTAATGATGA	AATTGTGAAC	CCAACTTAC	ACAAAGAAAA	ACCCGTAACA
34021	TTATACCCAT	ACTTAAACAA	GATGCCCTCA	TATACATAGT	AAAACCTCTG	GGGGCAGTAG
34081	TGAAGTTGGT	TATTTACTGT	TTTATGAAAG	TGCCATTTCAG	CCGGGTGCAG	TGGCTCATGA
34141	CTGTAATCCC	AGCACTTTGG	GAGGTCGAGG	CAGGCTGATC	ACGAGGTCAG	GAGTTCAAGA
34201	CCAGCCTGAC	CAAAATGATG	AAACCCTGTC	TCTACTAAAA	ATACAAACAT	TAGCTGGGCG
34261	TGGTGGTGTG	TGCCTGTAGT	CCCAGCTACT	CAGGAGGCTG	GGGCAGGAGA	ATCGCTTGAA
34321	CCTGGGAGGC	GGAGATTGCA	GTGAGCCGAG	ATCGCACCAC	CGCACTCCAG	CCTGGGAGAC
34381	AGGGCGAGCT	CCGTCTCGAA	AAAAAAAAC	AAAAAAGTGC	CGTCATAGTG	ACTCAGTTTT
34441	AAGGAATAAA	TCAAGGATAT	TTAACTCAAT	AGACTACAGT	TAGCTAACGT	GACTTGCACT
34501	GAAAGTTATA	CGAATATTGG	TACTTATTCC	CCTGCCCTTG	AAGTATCAAT	TAAAGACTCC
34561	AAAATTCCTT	TTAGAATCTT	CAGAGTAAAA	GCTAGAATTT	GATTTTTTTA	AATAATAAAA
34621	AAATACTTTG	TATCTAAATC	TGGTGTATAA	AATAACTTGG	TGGATGATGC	TTCAAGGCTA
34681	TCCATCCCCA	AATTTCTCCC	TGAATGATAA	AGAGAATAAA	TGAATATGTC	AATTCAAAAG
34741	TTAGAAAATT	GGCCGGGCAC	GGTGGCTCAC	TCCTGATAAT	CCTTTCGGAC	GCTGAGGTGG
34801	GTGGATCGCA	TGAGCTCCGG	AGTTCAAGAC	CAACCTGGGC	AACATAGCCA	GAACCCGTTT
34861	CAATAAATAA	TAGAAAAAAA	TGAGCCAGGC	GTGGTGGTCC	CAGCTACTCA	GTAGGCTGAG
34921	GTGGGAGGAT	CACCTGAGCT	CAGGAGGTCT	AGACTGCAGT	GAGCCGTGAT	CGCAGTACTG
34981	CACACCAGCC	TTGGTGTGAG	ACTGAGACCC	TGTCTCAACA	ACAACAAAAC	AAGTTAGAAA
35041	TTTGGCTGGG	CGCGGTAGCT	CACGCCTGTA	ATCCCAGCAC	TTTGGGAGGC	CAAAAAGGGC
35101	GGATCATTTG	AGGTCAGGAG	TTTCGAGACCA	GCCTGGCCAA	CATGGTGAAA	CTCCATCTCT
35161	ACTAAAAATA	CAAAAAAAT	TAGCCGTGCA	TGGTGGCATG	CGCCTGTAGT	CTCAGCCACT
35221	TGGGAGGCTG	AGGCAGGAAA	ATTGCTTGAA	CCCAGGAGGC	AGAGGTTGCA	GTGAGCCGAG
35281	ATCATGCCAC	TGCATTCCAG	CCTGGGTGAT	AGAGTGAGAC	TCCATCTCGA	GAAAAAATAA
35341	AAAATTCCTG	ATGAAGTGAA	CAAAATATCC	TTAAATTTTA	AAATACATCT	GAAAGATATT
35401	TCAAAATATT	TAGGAAAAAA	ATTATAGGGA	TCAGGCAAAT	TCTGAGATTC	CTTTTTCCCT
35461	GCAGCAACAA	TTAGGAGTGC	TGCTGTTTCT	AAAAACATGG	TAAGTGTGTC	CACACCGTAT
35521	GTTTCCCTTG	CTCAGACATA	AGGTTGTGTA	GTTGTTATTC	CAGAATAGCT	AGAATAAAAA
35581	TCCAGCACAT	CATTTTCTTC	AGCAAGTTAA	CTAACCTCTC	TGTGCCTTGG	TTTCATAACA

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35641  GCAACATAAG CATAACAGAA TAGCAGCAAT AGCTCCTACC TACCTCATAA GATTCTTTGG
35701  AGGAATTAAA TTAAGATTCA GAACACAGCC TAATATCTAG TAAGTAATAA TAATTGGCTA
35761  AAAAAATTTT CTTAAGATTA TATATATTCA TGGGGTACAA GTACAATTTT GCTACATTAA
35821  TATATTGCAT TGTGGTGAAA TCAGGGCCTT CAATCCATCC CGGAAAAAAA AAGTTTTTGA
35881  AAAGATTTCT GCCATGGAAG ACTTTTAATG TACAAATTCA TCCATCCAAG AAATAGAAAA
35941  TATATAAGTA TCAACTCCAA ATCCACCATA TCTATCTCTT CTACACCTTA AACAATTACT
36001  CAGAAATAGA ATGCTTGAGA TACCAGAATG CATGCATATC AAGTAATAAA TGCATGCAGG
36061  ATGTCAACGC ATCCTAGGCT TCCAAATAAA ATTGTCATAC AAAATACTTT AATATTGTAG
36121  TAACATTCTA CATGTTAGAG TGTAAGAAGT AATCGCTGAT GCAAAAAAGG AAAAGAACAC
36181  ATTATACCCA AAGCCTACAG AGAGAATCAC AATTACAAAT ATCAGCCTGC ATGTGAAAAT
36241  CTTTAATTTG AAAGTCAGAA ATATTTAAAT GATAGTCATT GTTAAATCAG ATTGTGGTTT
36301  GAAAAAAGT TAGTTTAAAA CTGAGTTTAT GAAAAATTTG GGGATTTTAG AGACAGTGTT
36361  TTGTTTTTAA ATGTGTGTGA GTTGTGAAG AATGTTTTAT AAAATACTGA CAGTATTATA
36421  AGATGACATT ATTATAATAC AACATAAGAA TTTTGGCCTG TACCTCTCAG CAGTCCCTCA
36481  TCACCTGCTG TACTTGACTC AATGATTATC AGAGTGGTTT GTTTTCCTTC TGTGTGTGTC
36541  CCAGTTCAGG CAGCTCAGCA ATGGCCTGTG ATTCCAGCAA TTCAAATAGC TGGTAAGTAG
36601  TTTCTTGTTT GTTTTCTCAA ATTTTCAGGG GCTTTTCTCT ACAAGTGATT TCCAGTGCAC
36661  GCCCCTCCAC CCATTCTTTA TTCCTTTACC TTCAGGAAAA CCCTCAGCGC TGCATCTCTG
36721  GTCACCGGAC CACCGTGGTA CATTTACCTA TGGCCACCAG GTGTCACCCT TCTCTTTACT
36781  ACCATGGTTT GTGAATGGTT TTGCCAGAGG TGAATAAGAA TTTAAATGC AGGTCTTTGA
36841  TTTTTCAAAT GTAGTTGACC TTAAGAATTT ATGAATAAAG CCAGAAAAAT TAAGCTTAAA
36901  AAACACCGAA AGAAAATGAG GACTTAAAAAT TTCTATTAAA AAAATTAACA GGCCACAGTT
36961  GCTGATGTTT AGTAAATGTG TTAGTGAAAT GTGTTACTGT GAAGACTGGG GTGTTTCTTG
37021  AAATCTCAGC CCAGGTGAAA TAAAACCAAT ATAAAACAAA TGCTTACCTA ATAAATTAAT
37081  TGTAACATAT TCCTTATGAG GTAGAAGAGT AAGTGAAGCC TTATAGCAGT CTGCTTTCAG
37141  TATAGTAAGA TATTAAGAGA GAAATAATTT GTCATATGCT TTCAGAATGG TTTGCTGGTA
37201  AAATAACCAA TGTCTTACAA CTTAGACGAC AATGTCCCTA GAGTGAAGAA ACACGATTAA
37261  TTCGGCTACC ACAGTTGAAT GAAAATATTC CGTAAGACAA AATGTAAAGA AATTAGAAGC
37321  AAAATAAATG TCTCCAAAT GACAAAGCGA TTAAGTATAT ACACAAGATG AACAAGAACT
37381  TCAATAAAAT CATGCAGTAT ACAATACAAT ATACATTTAT TAAAGTATAT GCATTTTAA
37441  TGCAACAATA ATACTAACAG GTAATAGACA AGTTGTAAAT AGTTTTTCAC TGGCTAATTA
37501  AATAACAGCT TTAATTGTAT TCATTTTATA GCTTTTCTAC AATGAGCGTA AATCACATTT
37561  ACTTTTTTCT ACATAACTTT TCTAACCACA AAAAAAGAAA ATGGTTTAAA AGAAGAGATG
37621  AGATATCTTT GCTAAAATTT AATGCCTAAA GAAGAACTT CTGAGCTGTA TATGGTATCC
37681  TGAAGCACCT GCCCTTCAAG ACAGAATGCT TGTACCACAT TTATGCAGCC AAGTGCATGT
37741  AGTAACATAA AGTAAACACA TGCCATCTGG ATATATATAT TAAGACTCTT TTGACGGCTG
37801  GGCAGGGTGG CTCACACCTG TAATCTCAGC ACTTTGGGAG GCCGAGGCAG GCGGATCACG
37861  AGGTCAGGAG AGTTCGAGAC CAGCCTGGCC AACATGGTGA AACCCTGTCT CTAATAAAAA
37921  TACAAAAAAT AGCCGGGCAT GGTGGTGCAC GCCTGTAATC CCAGCTACTT GGGAGGCTGA
37981  GACAGGAGAA TCGCTTGAAC CTGGGAGGCA GAGGTTACAG TGAGCCGAGA TCATGCCATT
38041  GCACTCCAGC CTGGGCAATA GAGTCTCAA AAAAAAATAA AGACTCTTTT GAACATGGTG
38101  AACTGATTTT CCAGAATCTA GCAATTCCTG AATGTCCTGG TTAGATTTTT TTTTAAATGT
38161  GCACCGGAAC CCCAGTGGCT CCATGGAAGG ACCTGGGCAT CCTCTAAGCC ACTTGGTGGC
38221  TTCCATTATA CCATCTCAA ATGAGAGAGC TTACTCCACT TCATTGAGGG AAATACCACC
38281  AGAGTTCTGA CTCCAGAGGC ACTGGCCTAG GGAGGACACC GTGTGTGAAG CCCAGCAGGG
38341  CCACTAGCTG TCCCCACCAA TTACAGTCCT TGCCTAGGGT CCAAAGAAAT GAATGCCAAA
38401  GAGAGCAACA GAGGAGCAAG GGAGTCACAT TCCAGGACCT TCCTTCAGGG ACTTTTAAAG
38461  GAAACATGAC AGCTGAGGAT CAGTTGGTTG TTTTCTGCTG TTCCCTTCA TGTGATTCAA
38521  GCTCACTCAG AAGAAACACA ATGAGACAAG AGAAGAGCCA TCTCCTTCCT TCTCTATTTA
38581  TTCTAGGCAT CTAAACTACT GAATGTAGTG GTGTCTGAGA TGTATCAAAC GGTCAGATTG
38641  ACTGAGTTTG AAACCTGTTT CTATCACTGA CAAACTATGA GATACTCTAT ACTTCACTTT
38701  CTTTTTTTTT TCATTTTTTT ATTTTATTTT TTATTTTTTT GAGATGGAGT CTCACTCTGT
38761  CACCTAGGCT GGAGTGCAGT GGCGCAAAC CGGCTCACTG CAAGCTCTGC CTCCTGGGTT
38821  CATGCCATTC TCCTGCCTCA GCCTTCCGAG TAGCTGGGAC TACAGGCGTC TGCCACCACG

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38881 CCCAGCTAAT TTTTGTATT TTTATTAGAG ATGGGGTTTC ACCATGTTAG CCAGGATGGT
38941 CTCGATCTCC TGACCTCGTG ATCCACCCGC TTTGGCCTCC CAAAGTGCTG GGATTACAGG
39001 CGTGAGCCAC CGTGCCCGGC CTACTTCACT TTCTTCATTT AAAAAAGAAA TGGGGATAAT
39061 AGTACCTATC TCATAGAATT ATTGTAAGAA GTGCATGCAG TAATCATGT AAGTAGGTGC
39121 TCAGAAGAGT CGGACACGAA GTAAGTGCTT TTATCATCCT TATCATAATT TTCATTATCA
39181 GAACAAGGAG AGACCAGGTA GAAAATTATT GTGATTCTTC AGGTCTGGAA TACTAGAGTA
39241 GCATCCCAAA TGAAGGCACC ATTAACCTTT GCAAATCTGT ATGACACCTT CATGCCAATT
39301 AGAAAAACA CCTCTTCACA ACCCCTTTCA AGATATTTGC CTCCTACCTG CTAAAAACAC
39361 CCATCATACT ACCCAGAGAT AGCCATGATG CTTTTTCTGG GACAGGTGCC TCTTCCATTC
39421 GTGCAGTGTA CAGCCTTCAT AGCTGTGCAA CTCACATCAC AATCAGATGG AAGAATCCCC
39481 AAGGCTTGGT GACAGATGAG TTAAGGGTA ACACAGAGAG AGGATTCAAA GGAAAAGTTG
39541 AACGGGTCCA GAAAATGCAT AGATACATGT GTAAAAATCT GGTAAGGTTA TGACTAGCCA
39601 CGTCCCAGGG TTCAAAGCTT TTCTCAGATG TTAATGAA TCATGTAAGT CCCCCAAATT
39661 TAAGGAGTCC TCTTCCAAAA ATAGGAAATG AAATGACATA GGTGTATGTC TCTGAGGTGA
39721 CGGAGGAAAT GAAGGAAGCC TCTAGTGCA GCTTGAGGT CATGAGAGAC AGTTCAGGG
39781 GAGAGGTCAC AGCTAGGGAT CACCGGCATG CAGGAACCTCA GAAACCTAAA TGGGGAAATC
39841 TTTTGTAGGA AATGAACAGA GAAGGCTAAA ATCAAGGAGT TCGTCAGGCA ATTTCTATGT
39901 TTAGGTTCAA CTCTCTCCTG AAACATGAAG AGCTCATAAA TGCCTCCCT CTTTGAGTCT
39961 CTAGTTTTGT CTCCTTCCCA CAGTGAGTCT GCAGGCTGCG TGCTACTCAC GTTCAGCTAA
40021 GACGTAGTGC CCCATGGCTC CTCCTGTGGA GACAAGAGAC CCAGGAAAGA GGCATCACAA
40081 ACCTAGGCAC CATCTTGCTT CTTCTCTCTT CCTTATTTTC CTCATTACCC CATCTCAATT
40141 TAGACCTGGG CACTATTGGA TTTCAAGAAC CATTATCTCT CATCTGGAAA TGCTTATTGG
40201 CTTTCTAACT GGTCTCCTCA CCTCTCATCT AACTTCTTAA CAACACATTC ACCATATAAG
40261 GGAGATCGTG GTCCTCCTTT CTTAGGATCC TTCAATGACA CCCCAGTGAT CATAACCCAA
40321 TATCCCAAAA GACCCTTGGA CTCTGTATGA GCTGGCTTCT TTCTGATTCT CTTTTCCCTA
40381 CACCACAGAT GTTCAGGGGG TAGAAATGCA TAATTGGTGA GTGATAGCTA CGCAAACCTCA
40441 GGGTTAAGGT ACAGTAATTA TTTCTAATCT CCCAGTATGC CTTATACTCT CCTACTTGGC
40501 ATGGTTGCTC CGTCTGTGTA GACCTCCCAT CATCTTCAAC CTCACCTAAT GGAATCCAGC
40561 TTCTCCTTCA AGATCCAGAA GGCTATCTTG ATCCCCAGCT GAATGTGATC ATTCTTTCTT
40621 TTGACACCCT AAGCATTTGC TTCCTGCCTG CTTTAGGACC TCATGGGGTC TTCTTTAACT
40681 ACATTTACTT GCTATCAATT TCATTCCCTA CCAGATTTGG GTTCTGAGAA TAGCCACAGT
40741 GACTTCTCAA CCTCAAAGCC CCTGTACTAC CTTAAACAGC TCTTGCAAAA TAGCAGGTGC
40801 TCTGAAGATG TTTGTTGAAT TAGAGACTTT CATTCTGGGG AGAACCATTA TTTTCTGTCT
40861 CCCAGGGAGC TGCTGGTGTC CCCAAAGAAT ATAAATGAGA AAAATGCTTC CCATGGATGC
40921 CAGATCCCCCT CTGCCCCCTT TCCCCTGTG CCCTGGGGCA GAGGTACTAA GAGACTTCCC
40981 CCTTGTTCTT ACTCACTTGA ACCCTGCCTC TTCCTTAATA TTATGAACAA AATTCCAATG
41041 AACAAGATGA CGACAAAAC AGCAATTCCA CTGATGACTC CAATGACTAG GGTGCCAGAC
41101 GGTGAGGGCT CTAAAACAGA AAAAGCAAGT TAAAGCCTTT GATTGCCACC CTCAGCCCAC
41161 CCCCTAACAA AGAGCAGATC CTCATCTCAC TGCCATAATT ACCTCCTCAG GCACTCCTCT
41221 CAACCCCCAA TAGATTTTCT CAGCTCCTGG CTCTCATCAG TCACATACCC CAGATCACAA
41281 TGAGGGGCTG ATCCAGGCCT GGGTGCTCCA CCTGGCACGT ATATCTCTGC TCTTCCCCAG
41341 GGGGTACAGC CAAGGTTATC CAGCCCTGGT AGGTCCCATC CCCATTGGGC AATACGTCTT
41401 TAGGTTTCGAA CTCCTTGGA TCCATTGGCT GCTTATCCTT CAGCCACTTC ATGGTGATGT
41461 TCTGGGGGTA GTAGTTCAAG GCCCGACACC GTAGAGTGGT CACTGAAGAG GTCACATGAT
41521 GTGTCACCTT CACCAAAGGA GGCACCTGAC AGGAAAGAGG AAGGATGAGG AGAGGGGATC
41581 TGTTTACCCT TGCCAGGAAG ACTGGAACCT TCACTTCCTT CTATAGGTTG GAGGAAGGAA
41641 ATACCCTTTT CAGAAAAAAA CAAGCTACAG GAGAGACACC ATTTTGTGTC CTAAGATTGG
41701 ACTCTAACAC AGTGCTACTT GGAGAGCAGT CAGATCAGCT TGTTCTCCTC ACATGTAAAT
41761 ATACATATCT GTTACCCATG TTCTTTGTTT TGATAGATAA AATTGCCCTT TATGTGCATT
41821 GAAAATGATT GAATACAGAT GGTCAGTTTC ACCTGGGTCA ACCTAGGAGG CATTGTTATA
41881 AGAAGCGGAC TTGTAAGATA GGTAGCTTCA GTGATTATTG CTATGTTCTA TGAAAGAAAC
41941 TTTTAACCTA AAGGATTCTT CTACTCTGAT AAGTGGCCTC ACTTGATATT TTGTCCTGGT
42001 ATTCATATGA TAGCTGAGAT CTCTGAATTC TCTTTTTTTT TTTTTTTTTT TTTTAAGAT
42061 GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT CAGTGCAACT

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42121	TCCGCTTCCC	AGGTTCAAGC	GATGCTCCTG	CCTCAGCCTT	CCAATTAGCT	GGGACTACAG
42181	GTGCGCATGA	CTGTGACCAG	CTAATTTTGT	TATTTTTTTT	GAGACGGGTT	TCACCATGTT
42241	GGTCAGGCTG	GTCTCAAAC	CCTGACCTTG	TGACCACCCG	CCTCGGCCCT	CCAAAGTGCT
42301	GGGATTACAG	GGGTGAGCCA	CCGTGCCCCG	CCTTGACATT	TCTGAATTTT	TAACAGGTAT
42361	AAATATACAA	AAGATTATTG	GTTAAATAAA	AAGCAAGGGC	CATAGACACT	TCCCTTTGAG
42421	CCATATGCAT	GGAGAAAAGA	AATTAAACCC	ATGACTTGTG	GCTGTCTCAT	ACATCTCAAT
42481	TATAAGGTAG	AGACTCTAGG	ATTGAGAAAG	TCCCTTCCCA	GAATTTGGAG	AGGCACACAG
42541	CCTCAGCCAC	CTCTGAAACT	CCAACCAGGG	ATTCCGTGCC	CTGCAACCTC	CTCCACTCTG
42601	CCACTAGAGT	ATAGGGGAG	AAGTGTGTTT	CCACCATAAC	TTGTTGGTCC	AAAACACCTC
42661	TCCCCAGCTC	CAGCAACTGC	TGCAGCTGTG	CAGGGCAGTC	CCTCTCCAGG	TAGGCCCTGT
42721	TCTGCCTGGC	CCGAATCTTG	TGCCTTTCCC	ACTCCAGCTT	GGTGGGCCAG	GCCCTGGGTT
42781	CTGCTGCTCT	CCAATCCAGT	GTGTCAGGGC	AGAATTCAAG	GTGGTCCTGC	CCATCATACC
42841	CGTACTTCCA	GTAGCCCTCG	GTAATGTTGT	CTTCTTGTCAT	TTCACAGCCC	AGGATGACCT
42901	GCAGGGTGTG	GGACTCTGGA	AAAATCCCCA	GCCTTGTTAA	CTGCAACCAA	AGGAATAGGT
42961	CCCTATTTTC	ACCATCCCCA	AGGACCAAA	GATCTCAGGA	AGCAAATTCC	TTCCCTCTTC
43021	CCTGCTCCCA	CAAGACCTCA	GACTTCCAGC	TGTTTCCTTC	AAGATGCATG	AAAAGATGAA
43081	AAGCTCTGAC	AACCTCAGGA	AGGTGAGGCC	CCCTCTCCAC	ATACCTTTGC	TGTGGTTGTG
43141	ATTTTCCATA	ATAGTCCAGA	AGTCAACAGT	GAACATGTGA	TCCCACCCTT	TCTAGCTCTG
43201	ACTCAGCTGC	AGCCACATCT	GGCTTGAAAT	TCTACTGGAA	ACCCATGGAG	TTCGGGGCTC
43261	CACACGGCGA	CTCTCATGAT	CATAGAACAC	GAACAGCTGG	TCATCCACGT	AGCCCCAAGC
43321	TTCAAACAAG	GAAAGACCAA	GGTCTGCTC	TGAGGCACCC	ATGAAGAGGT	AGTGCAGAGA
43381	GTGTGAACCT	GGAGACAGAG	CAACAGGCC	TAACCATGTG	TAGTAGGAGG	GGAGCAGGAT
43441	GTTGAGGCTC	CACACACCTG	CATCAACTCA	TACCATCAGC	TGTGTCTGGT	CCTCATTTTG
43501	TGAAGGGTGA	GTTGCAGTCC	TGTCTTTCTT	CCATATGACA	GTCCTGGGTG	CTCTTTCCTT
43561	GTGTGCTTTT	CTCTGCCACA	CGTGGCTGCC	ACCCCTCAC	TGCCCCAGA	TCCTATTCCA
43621	ATACTCATGA	TTAGACAGAC	TCCACTAAAG	CTGGTGATT	CTAGAAAATG	TTAAGGTGTG
43681	TCTAGCCATG	GTAAGTTGAA	TCAGGAGTTG	GTGCTCAGGG	CAAATTAGAC	CCAAATCCTG
43741	AGGAATAATT	CCTTCAGTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTGAGA	CAGAGTCTCA
43801	CTCTATCACC	CAGGCTGGAG	TGCAGTGGCA	CAATCTCAGC	TCACTGCAAC	CTGCACCTCC
43861	TGGGTTCAAG	GGATTCTCCT	ACCTAAGCCT	CCTGAAAACC	TGGGACTATA	TGGGCTGCC
43921	ACCACACCAG	GCTAATTTTT	GTATTTTTTAG	TAGACATGGG	GTTTCACCAT	GTTGGCCAAG
43981	CTTGCTCTCA	ACTCCTGACC	TCAAATGATC	TACCTGCCTC	AGCCACCAA	GTGCTGGGAT
44041	TACAGAAGTG	AGCCACCGTG	CCCAGCCTTG	GTCCTGAATT	CTTACACTGA	ACTGCCTATG
44101	TGGCCTCACC	ACTTGGAAGC	CTGACTGGAA	TCTCAAACCT	AACATGTCCA	AATGCAGATC
44161	CTTGATTTAC	CCCAAACCTG	TCTTCTCTCT	GCCTTCACCA	TCTCAGAAAT	GGCATTGCCA
44221	ATTACCCAC	TGCTCAGGCC	AATAAAATTA	AAATAAAGAA	CAAAGTCAAC	TTTAACTCTT
44281	CTCTTTTTC	GGGGGTCAGG	GGAGACAGGG	TCTTGCTCTG	TCACCTAGGC	TGAAGTACAG
44341	TGGCACAGTC	ATGGCTCACT	GCAGCCTCAA	CTTCTGGGGC	TCAAGCAATA	CCCTCCACCT
44401	CAGCCTCCCG	AGTAGCTAGG	ATCACAGGTG	CATGCCACCA	CACCCAGCTA	ATTTTTGTAT
44461	TTTTTGTA	GAAGGGGTTT	TGCTGTGTTG	CCCAGGCTGG	TCTTGAACCT	CTGAGCTCAG
44521	GAATCTGCTC	TCCTTGCCCT	CCTCCTTGCC	ATGAGCTACT	ACACCCAGCC	AATTCTTCTC
44581	TTTCTCTCAC	ACAACATAGA	ATCCTTCAGC	AACCTCCTTC	AGAATATATT	CAGGAGACAA
44641	TGGTTTGTCA	CTCCCTTTTC	TGTTCCCAAC	CAGCCCACTC	CACTACCTCT	TGCCTGGACT
44701	GTGTAACAGC	TTCTTGCTG	GGCTCCCTGC	TTTTACTGTT	GCTCCCTTCA	TCTGCTTTTC
44761	CACATAGCAG	CCAGAGCAAT	CTTTTAAAG	CCTGTGACAG	ATCACTGTTA	CTCTGTTGCT
44821	AGAATTCACA	CCACAGCCTA	CAGGCGCCTG	CACAACCTTG	TTTGTGGCTC	CTCTTCTGAG
44881	CCCATACCT	ACTTCTTGCC	CTCTACTCCC	CAGCACTACT	TGTTTATTTT	TTTCAACCCG
44941	AGCTTCTTAA	CCAGGAGTTT	GTCTACTAGG	TGACATGTGG	CAAAGTTTAG	AGACATTTTT
45001	GGTTGTCAAG	ACTGGGGGAG	TGCTCCTAGC	ACCTAGTGAG	TAGGGAGGAC	AGGATACTGC
45061	TAGACATCCT	ACATGCAGAT	GGTAGTCCCC	CTTCCCACCC	CCACGCCGCC	CCCCCCCCC
45121	ACACACACAC	ACATGAGTAG	TGCTGAGAAA	ACCCGCTTTT	TAATCCAAC	TGCCAGGCC
45181	ACTCAGTTTG	CCTGGGAAAT	ACTGCTCCCA	GTCAATATCA	TTCTTATTTT	CTTCATGTCT
45241	CTGCTCAAGT	GTCAGCCCCA	GAGTGACTTG	CCCTGACTTC	TCTGCTTCTC	ACAACACCCA
45301	TGATTTCTCTG	ATGTTGTATA	TCTTCTGCT	CATTTGCTTA	TTGTCATCTC	TCCCACTAGA

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45361 ATGCAAAATA TCAAAGGGTA AAGACTTGTT TCCCTGCTCT CTCCCTTGGG GCTTGAACAG
 45421 TGCAACACAT GGCTGGGACT CATTTACACT TGTAACAAT GAATATTTCT GCTCAACATG
 45481 AAATTTTATT ATTCAACCTC TAATGCAGTG TGATGTTTAA GAATCATAGC TATGAAGTGG
 45541 AGACATGAGC TCTGCCACCA AAGCCAGTG TACCATTGAA TAAATTTGCC AGGAAGCAGG
 45601 CCGTGCCATG CCTCATTCTT GTCATGTGTA AAATGTGGAT ACACGTAGTA CCAAACCTCA
 45661 AAGTGCTGTG CTGAGGCCGG CGTGTGACCC ACAGAACACT GTGCTACACT ACAGGGCAAA
 45721 ATCACTGTCA ACTAAGATTA GAAGCAGCTG TAGTACTTGA AATAACATCA GAAAACCAGA
 45781 TTATTTATGT TCTTTGTAAC CTGAAAAGAG TTATATAATC TGAATTCAG TTAACCTCTA
 45841 GTAAATAAAA CGTATTATTA GCTCCTACCT CCCTATGCCT AGTGAAAATC AAATAAGATC
 45901 AGATATGAAT GTAACCTAGA AGTGAGTGCA TTGCTTACAT GTTCATTATC AGTACTTTGT
 45961 AGAGAGGCCT CTTAATTACA CAGCACATTG CAAATCAATA AAGCCTAGCC GAAAAGAGAA
 46021 TTGTTTCAGTT CAAACGTTCA AAACCTAATC ATACTTAATT TTCCAGGCAA AAGAACAATT
 46081 GCCAAGAGTG GGGAAAGGCC CGAGGTAGGC CTCTCTCAGG AGCCTCCCAC CCTAGAGACC
 46141 TCCACCCAG GTCTCACCA AAGTGGGTGG AATGGTGAAG AATTCAGATC CCAACGCCA
 46201 CTCTTTTCGCG CCCCACCGC CCAACGCATT CGTTCGAGG TGGAAACCCC GTGCGGATCC
 46261 TGCTGTGGGT TTGCTCAGCC TTCTCGCAA GCACTCAGG AAGAACTTCC TGTTCGAGA
 46321 TGACTGGGGA AAAAAGTCA CAGCTGACAT TGGAAATAAA CCCGAGTTCC AGGTTCAAGG
 46381 AGCCCCAGGC TTAGCTCAGC TCAAGTGAGG AACTACGAGA TTTATTTAAA AGCATTCTAG
 46441 TTGGGGGAAG GGAGTGGGCG GTTCCAAAAG TCACTCCGCA GAGCCGGGAC AGCCGGGGGA
 46501 GGGGGCAGGT CCTGGGGCGA GGGACCCCTA TCTGCAGTTC AGTGGTAGGC ACTCCCTCAC
 46561 GGGGTCTGGA CGCAGAAAGT AGGGAGAGGG GCTTGCGGAT AGGGTTGAGC AGGCTCTCCA
 46621 AAGTTAGCAA ACTCCCAAGC GCAAAGAAAA AGCTAGTTTC GATTTTTCCA CCCCCCGC
 46681 GCCCCTAGTT CGCCCGCAGC CCTCGGACTC ACGCAGCAAG CGCCCTGCA GGACCGCGGT
 46741 CTGCAAAAGC ATCAGGAGGA GAAGCGCCGG CCTGGCTCGC GGGCCCATTT CCCCAGCTCT
 46801 GGCCGCACGT CCCCCTTAAA TCTCCGCTTC TTTTGGGGGG CGGGGAAACG GGGATGGCTC
 46861 CAGAAGTCAC CCTACAGCTA TTGCCTAGGC TCAGGAGATG CCCAGTAAAA CTTCTGGTG
 46921 AAAAGCAACA GGTCTTTCAG AACTTTAGTT CTCTCTCTCC TACAGCAGAA GGTACCTGCT
 46981 TGTGAAACAC TAGGTGATCC AGTGTCCTCC TTGGTTTTTA AATCCTGAAG GGGTGTGTGTT
 47041 GATTGGGGAA AGTAGCTTCG CAATGTTCTG ATCTGAACTT TAGATATTTA AATATTTATG
 47101 ATTTTCAAAA TTCAATCATA CATTTAAAAA TTTTATCTCA ACCTTAGACC AACTTATGTC
 47161 TTATTTGACT TAGAAATATA AAGCTTTTTT TTTTGTGTTT TTGATTCAAA TTAATTAAGT
 47221 CATAACATTA ACCAATTAGA TCCTACTGAA ACACCTTCCA CAGCCTTCAT AATTGAATTA
 47281 TCTGACAAGT GTTTCACAAA CTTTACAGTA TTGGGATTAT CTGGAGAATG ATTAAACATA
 47341 TTGAGGCCTG CTCCTAACCC CAGACACACT GATTTAATGG GTAATTGTTA GTAGTTAGA
 47401 CATTAGCAGT TGGGAGGGGA TGACAGAAGA GAGCGGAAAG GCTGTCACTA AGACAGCCAC
 47461 TGGCCACCT AAATTCAGGC CCAAGACTAC CTAATGCCA CCCTAAGGGA TGGAGTTTAT
 47521 GATAAAGTCT GTGGCCAAAA TATCCTGGAG AAAGAGAAAG GAGGGTACAG GTGGAAATTC
 47581 CCTAAGGTGG CACATGCCCA ACAACACAAA AGCCTGTCTT CAAGTTCACC CCAAGTTCAT
 47641 CATGCCATCA TTATAATAGA ATTTACATAC AGTTTGTCCC CCCCATCCCT GGGAGGCTTT
 47701 TCTTAACAAA TTATAGGTAA GACCATGCAC AGTTTAATTT TAGATTGTAT AGCTATACAC
 47761 TTCAATCAAA TAACATCATC CTGTCACTCA GATACAGCCC AAACCTCAAC TCCTCCCCAC
 47821 AAACCCCATTA AAAGCACCTT GAGCTCTGTA AAGAAGTGCT GAGTTCACTT CGCAGAAATA
 47881 AGCCCGCTGT CCCTCAGAGT GTATTATTGT GCTTCAATAA ACTTTGCTTT AAGCTTGCAT
 47941 TTTGGTGTTA GTTTGTAGTT CTTTGCTCAC TATCACAAGA ACTGAGATTG CTGGTTTACA
 48001 GCTCCGGCTA TAATAATCTC CTCGGTTAAA GGATCCATCC CAATGCATAA TTCCCAGTAA
 48061 CAGTATGGGA TGCCACCTGG GCAATGGGAT TTTAAAAGCT TTCCTTCTCC CTCAACGAAG
 48121 TTTGGGAATT ATTGCCTTAG ACATTTCAAA CAATATTAAT AAATTTAATA CACCTGATTT
 48181 GCTCCAAACC TTTACATATC TAGCAAATTC AACAGGCATT ATTTTTGTAA GCATGTATGC
 48241 AAATTTTGGC AATTCAAGAA AATCAAACAG GATATCAGGG CCTCGACTGT AGGCAAACAG
 48301 ATACAATAAC ATTGGAAACA TGTAAGATAT TGATGATGGG CACATTGGGG CTGATAGTAC
 48361 TATTCTTTT TTTCAATTTT TGGTAAGATA TAATTAGCAT ACCATATAAT TCATCTATGT
 48421 AAAATGCAAA AATTGGCCCG GCTCAGTGGC TCACGCTTGT AATCCAGCA CTTTGGGCGG
 48481 CCGAGGAAGG CAGATCACCT GAGATCAGGG GTTCGAGACC AGCCTGGCCA ACATGGTGAA
 48541 ACCCCGTCTT TACTAAAAAT ACAAATAA GCCGGGCGTG ATAGCAGGCA ACTGTAATCC

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48601 CAGCTACATT AGAGGCTGAG GCAGGAGAAT CGCTTGAACC CGGGAGGCGT AGGTTGCAGT
48661 GAGCTAAGAT CGTGCCATCA CACTCCAGCA TGGGAGACAA GAGCAAGACT TCATCTCAAA
48721 AAAAAAAAAAT TAGCTGGGTG TGGTGGCATG CACCTGTAAT TCCAGCTACT CGGGAAGCTG
48781 AGACAGGAGA ATCGCTTGAA CCTGGGAGGC GGAGGTTGTG GTGAGCCGAG ATCATGCCAT
48841 TGCACCTCCAG CCTGGGCAAC AAGAGCGAAA CTCCGTCTCA AAAATAAAAT AAATAAAATA
48901 AAATGCAAAA ATTAATGGAT TTTAGTATAT TTACAGAGAT GTGCAACCAT TACCAAAATT
48961 TTACATTTCT ATCTCCCCAA AAAGAAACCA TGTTCCTTA ATTCAAGTACC CTTAATTTCAT
49021 CGCCTCCCAG ATTCCTCCAT TCTCCTCCTC CTCCCTCCC AGCCCTAGAC AATCTTTAAT
49081 CTACTTTCTT TCTATTTGGA ACATTTAGTA TACATAGAGG CATATAATAT ATTGCTTTGC
49141 CGTGACTGGC TTCTTTCATT TAGCATAATG TTTTATGTA TGTTTTTCAT GGACCAATAA
49201 TATCTATTAT AAGGACATAC CACAACATAT TTTATTTATT CATTTCATCAG CCGATGGACA
49261 TTGGTTTGTT TCTACTTTAT GGCTATTGGG AATAGTGCTG TTATAAACAT TTATGTACAA
49321 GTTTTTTTGT AGACTTATGT TTTGATTTCT TTTGGTTATA TATCTAGAAG TGGGTTTGCT
49381 GGGTCATATG GTAACACTGT TTAACCTTTT GAGGAATTGC CACATTCTTT TCCAAAGTAA
49441 GCATTTTATC CTCCTATCAG CAGTGTATGA GAGTTCGTAT TTCTCTCCAT CTTTGCCTGG
49501 GTTTTTGAAT CAGGGCCCCA GATAGAACAA AAATGTGGTT ATTCAGTTGT TCCACCATCA
49561 CTTGTTGAGA AGACTCTTTT TTCATTGAAG TGTTTTGGCA CCCTTATCAA AAATCAATCT
49621 ACCATAAATG TGAGAGTTTA TTTCTGGAGT CTCAATTTTA TCCCATTATG CTATAATCTA
49681 TAATCCTATC TTTTTTTTTT TTTGACAGAG CCTCACTCTA TTGCCCAGGT TGGAGTGCAG
49741 TGGCCCAATC CCGGCCACTG GTCCTCCTC CCAGGTTCAA GCAATCTCTC TGCCTCAGCC
49801 TCCCAAGCAG CTGGGATTAC AGGTACCTGC CACCATGCCT GGTTAATTTT TGTATTTTTA
49861 GTAGAGACGG GGTTTCACCA TGTTGGTCAG GCTGGTCTGG AACTCCTGAC CTCAGGTGAT
49921 CTGCCCACCT CAGCCTCCCA AAGTGCTGGG ATTACAGGCA TGAGCCACCA CACCCAGACT
49981 ATAATCCTAT CTTTATGTCA GGACTACACT GTCTTGATTA CTATAGCTTT TTAGTAAATT
50041 GAATTCAAGA AGTTTCTCAA CTTCAAATTT GATCTTTTTT TGGAAGACTA TATTAGCTAT
50101 TCTCAGTCTG CTGAATTTCC CTAGGAATTT TAGGATCTAT TATCAATGTC TATTCTATTT
50161 TTGTATATGT TTTAATATTT TCATAAGAAA CTTTTTTTCAT TTAAACTTTT TTTTTTAAGA
50221 AAAATAGTGA AAATCAGAAC ACTGGGGGTC AGGCGCATT T AACAGGCAGA AGAAGAATAA
50281 AAACCTGTCA TATAAACAAA AAAGAAATGA CCAATCACAT TGTGGAAGCC ATGGAGTGGT
50341 TATAGGTGCC AAAGGCTGCA GAGAAATGGT GTCAGATATA CCTGAAAATT GTCCATTGTA
50401 TTTGGCCATT AAGAGACTTA GAAGACTTAA GCCATAGATT GCTCAGTGAG ACCCCGAGGG
50461 CAAATGGTCT GAAGGTGAAT AGATCATTTC ACCTTTAAGA GAGCAGGTAG GAAGCTATAA
50521 ATCCAAGATT AAAAAAGTTGA CTGAACCTGT AAGGAAGAAA CTCTAATCTT GAGCCACCCT
50581 ATCCTGGCTC CACCTTCTGC TGCAAGCAAA CAGAAATGCT GAAATTCAAC ACTCACAAG
50641 GCTGGTAAGC TGGAAATGAC AAAAATTACT CCTGGGAAAG TCAGATTTAG AATTAGGCCA
50701 TATTTGTTGG GGTTTCAGAT TTCATGTACA CTTGGGAAAG GGTTTAGCTT ATAGGCACAT
50761 GCATGAAGGG AACTGGTATA GGGCTGTGTT CATAAGGTCA AGAGTTGAAG GCCAGGCATG
50821 GAGGCTCTTG CCTGTAATCC CAGCACTTTG GGAGGCCGAG GCAGGAGGAT GGCTTGAGCC
50881 CAGGAATTCA AGACCAGCCT GGGAAACATA GGGAGATGCT GTCTTCACAA AACAAATAAA
50941 AAATAAAATT AGTCAGGTGT GGTGGCACAC ACTTGTGGTC CCAGCCACTC AGGAGGTTGG
51001 GAAGATCACT TAAGCCTGGG ACATTGAGGC TGTAAGTCAGC CATGATAGTG CTACTGCACA
51061 CCAGTCTAGG TGACAGAATG AGACCCTGTC TCCAAAAAA GAGCTGTATC CACATCCCAG
51121 GAAAGTGGTT GAAGATCTAC TTTTCTCTGT AAACCTAATA AAGAATAGAG TGACAAATGT
51181 GTGTTGTGGA AAGAAATGGG GTGAGAGCTA CGTAGATGCA AAACAATACA TCCCCACATA
51241 CCACCTGTTA ATCATCCTTT TCCACCCACT TATGGGATGA ATTGCATCTC CCCAAAAGAT
51301 ACTCTGTCCT AACCTCAGT AGCTGTGAAC CTGACCTTAT CTGGAATACG GTGAGTTCAC
51361 TGGTTAAGAA GAGATTATAG TGGAATAGGG TGAGTCCTCC AACCAATGAC TGGGGTCCCT
51421 ACAGACACAG AGGGATGATG GCCAGGTAGA GATGGAGGCA GAGATTGGAG TTATGCTGCC
51481 ACAAACCAAA CACAGGAAGC TGCTAGAAGT GGAAACAGGC AAGAAAGAAT CTTTCCCAG
51541 AGGCTACAGA GGGATCTTGG CCCTGATAAT ACCTTGATCT CAACTGGCCT ACGTAACTGT
51601 GAGAGAATAA ATTTCTTTTG TTCTAAGCCA CCCAGTTGAT AGTACTTTGT TACGGCAGCC
51661 CTAAGGAAC TGAATATACAT TTCTTTTACT GTCATAGAAG TTTTGAATCT TTTAAGTAGG
51721 TCTGTACCCT TCCTCCCAGT GTCAACACAT GGAATTCCTC TCCTTGTGCC TTGAAAAGTG
51781 AAAGGTGTTT GAACTGGTAA TGAAAGAAAT CTCAGCATGA GGCCAGATGC TGTACCTCAC

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51841  ACCTGTAATC TCAGCACTTC GGGAGGATGA GGCGGGCAGA TCACTTGAGG TCAGGAGTTC
51901  TAGACTACTC TGGCCAACAT GGTGAAACCC CATCTCTACT AAAAACAAAA AATGTTATCC
51961  TAGCCGGGCA TGGTGCCTGT AGTCCCAGCT ACTCAGGAGG CTGAGGCAGG AGAATTGCTT
52021  GAACCCGGGA GGTGGAGGTT GCAGTGAAC TAAAGAAAAA TGAAATTTCA GCATTATAGA
52081  GAGAGAGCAA GACTTGGTCT TAAAAAAGAG AAAAGAAAAA GAAGTCTGCA TCATAAAATG
52141  ATAAAAATGT TTCCCCTTCC CCCCAAACTT TAAAAAAGCA GAAGTCTGCA TCATAAAATG
52201  GTCTTTGCCA ATGTTATTTT TATTATAACA AAGGAATCTT GCAAGGCTAC CAGATCTCAG
52261  CAATTGTCAC TATGTTCTGT AAAAATCACT TCCTAAAATG TCTGAATTGA CTGCTTGTCT
52321  CATTTATTTG TTTCTCGTGT CATACTGCAA TGGATATCTG TCTTGTTAGT ATAAATATTT
52381  GTGCATTTTG TTGTTGTTAA AACAGCTTTT TTGGCCTGTC TTCTTCACC TATGAGGTAA
52441  TATAAACTC ATGTTTAACA CTTATTTTGT TAGCAGGACA AGCTACAGAC AAAACCCCTC
52501  AGACACTGAG TTAAAGAAGG AAGGGCTTTA TTCAGCTGGG AGCTTTGGCA AGACTCACAT
52561  CTCCAAAAAC CGAGCTCCCT GAGTGAGCAA TTCTGTCCC TTTTAAGGGC TTGCAACTCT
52621  AAGGGGTCT GTGTGAGAGG GTCATGATCG ACTGAGCAA TGGGGGTATG TGACTGGCAG
52681  CTGCATGCAC CAGTAATCAG AACAGAACAG GGATTTTCAC AGTGTTTTTC CACACAATGT
52741  CTGGAATCTA TAGATAACAT AACCGGTTAG GTCGGGGGTC AATCTTTAAC CAGACCCAGG
52801  GTGCAACACC AGGCTGTCTG CCTGTGGATT TCATTCTGCT CTTTGTAGCTT TTACTTTTTTC
52861  TTTCTTTGGA GGCAGAAATT GGCAGATAAG CAATATGAGG GGTGGTCGCC TCACTTATTC
52921  ACCCCCTTTG AGAATCTCAC TCATTAGTGG GAGTCTCAC TTTTATCTC ACTACCTATG
52981  TCTTCTTGAA AGACAGATTG ATAATGATTC ATATAGTACA CTGTGCTGA AGCATTTTGG
53041  TGAGCTAAGG TAGTGATGAA GCTTTTTATC ATTTGGAGAA GTACAGGTAG CAAACAAGGA
53101  AGCAGTAAGC AGGTTTCTAT TAATATTATA ACTCCTATTA TAAGAGTTTT AAATCTTCTT
53161  AGCACTCGGA ACCATTTTTT AAACATGGCC CCAGAAACAA ATCCATACCA CACCTACATG
53221  GGCACATGTG CCACTTTTGT CATATTTCTA ACTATGTCTT CAACTACTTG CCCTTAATCA
53281  TCTATGTGTA GACAGCAATT AGTAAGGTTA AATTTCTTAC AGACCCCTCC TTCAGTTGCT
53341  AGCAAGTAGT CGAGAGCCAA TCCATTTTGA TAGATAGCAT TTTGCATCTG AGTTTCTTGC
53401  CAGGCCACAG TAGTCAGGGC TCTGCTGGTC TTATTAGTAA TTATTTCTAA GACAGCTTGT
53461  AACCGTATGA TTCAGTTGAG CATGTAAATG GGGGTCCCAT ATCCCCACAA GCCGTCTTGT
53521  GCCCAAGTAG CAGGCCATA ATATTGTATG ATTCTCTCAG GGGGCCATTC ATTATTTTTT
53581  CAATTTTCTA TAGCTATGCT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTGGG
53641  GAAGCATATA CAGGGAAGCC CAGGAGTTTG CCGTCTTTA TGGGCAGTAG GAAGAAAGAT
53701  GGTTTAGTAG TGTCAATAAC ACACTACCT GCCCACTGGT CAGGTAATTG GGCATAAGCT
53761  GTATGCCCAC ATATCCAGTA TAATCCAGTG GGGGCTGTCC AGTCCCGGTG GGACTCTGGG
53821  TGGGTCCACA CAGTTTGCAA CTTTGGGAAT TACTAAATA GATTTTCTT AGTGTGTTT
53881  GAACTCCACT AGGTGGCTGT TTTTATAGTA CTATTATACA GTTTTTGCCC AAGGCAGCTG
53941  AGTCTTCCCA CAGGAAGGGT GAAGTCCTC CCCACTTTTG CTATACAGTA TTGTCTAATG
54001  ATTGAGGCTT TTAGGACCCA GAAGTTATCA GGGTGAGTCT TTTGAGCTGG GAATTTATCA
54061  GGAAGTGGGT CTGTAGGTAC TAATCTCGT GCTTCCCATG GCCATTGATC TCCCATTACA
54121  GTTCTCTCAC ATACATACAT AACATGAAGT GACATTGAGA GACTGGGCTA CATGCTCAGC
54181  TAATTGCAAA AACAAATTTT TTGTTTTTCC TGGAATTTCT AGTACTGGCA CATTCAAGTT
54241  ATCATAAGAA GGTGGAATC ACTGGCTCAG GGGAGCATTT ATAACTTCT CCTCAAACCA
54301  CCATATTTAC TCAAGGATCC AGTCCAGCCC CAACTATTTT TAAGGTTACA CGATCCCTT
54361  TTTTCCAGTG AGAATCAAGG GGTGTTGTTA TTACTAGTTC TAAGGGGTTA CACTGACCAC
54421  TGGTACAGGA AGGGCCACTT TTCCCTTCT GAAGGTGGAC AGGATTCTTT TTATTTTTTA
54481  ACCAAGTTGC CTAAATGACA CAAGACCAGT ATCTACATTT ATTTCCACGC AGTCTTAATT
54541  CATGACAAGC GTACTTATTT TCTGCCATAT AGCCTCTTTC CTAATGAACA GAACCACATG
54601  CTATTTCTAA CTTATTACTA TTAATGACAG CACAGGCATC AAATTTCAAG GTGACTGTG
54661  TGGGCATTCC TTTTCTTCT GTTTTGGCTA ACACTTTACT CGTATCGTTT ATGAACCCCC
54721  ACCAGTCCTC AGTCCTCAAT CTTATTTCAA AAAGTGTGGT CGTGGGAGGC TCAGATGGGT
54781  CATAACACAC ATCAGGTTGG TCATTTCTTG GGCTACCTAC CTTGTATAGA ATAGCATTAT
54841  ACAAACAAGT TATTTTTAGA GTCTTTGTAC ACTTATAATA ACCATAAAAT AATAAGACTG
54901  TAGCAACTTT TTGTCCTACC TCAGTGAAGT GATGTATACA CTGGGAACAG CCCTCAGTCT
54961  GAGGAAGGTT AGTTGAAGTC TTTACTGTGC AAGTCCAAAT TTTAAGGAAA ATGAGTCCCT
55021  TGATGAGTTT TCTCATGTTT CGGCCATGCA TGGACCAGTC AGCTTCCGGG TGTGACTGGA

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55081 GCAGGGCTTG TTGTCTTCTT CAGTCACTTT GCAGGCGTTG GCGAAGCTGC CACGTACAGC
 55141 TCACAGTCTA CTGATGTTCA AGGATGGTCT TGGAAAGTTG GCCCACTAGA ATTAAGTGA
 55201 TCCAATACCT CTACTCAGTC ACTTTCAACT GGGCTTTCTG ATACCAGGAG CAAGGTGGCA
 55261 GGTTTTAGGG TGTTGCAAAT TTCAATGGTT ATGCAGGGAT TTTCACATAG CAAACTTTGG
 55321 TACTTGGTTA ATCTAGCATT TGTTAGCCAA TGATGTATTT ATTAAAGTCA CCACAGCATG
 55381 GAGGGCCTTT AAGTTTAGGT TTTGTCCAAG AGTTAGCTTA TCTGCCTCTT GTGCTAGCAG
 55441 GGCTGTTGCT GCCAAGGCTC TTAAGCATGG AGGCCAACCC TTAGAAACTC CATCTAGTTG
 55501 TTTGGAGGCC CAGCCTCGGC CAGGGCCCCA CAGTCTGGGT CAAAACCTCA ACCGCCATTT
 55561 TTTCTCTTTC TGACACATAG AGTGTAAGG GTTTTGTGAG GTCAGGTAGC CCCAGGGCTG
 55621 GGGCCGACAT GAGTTTTTCT TTTAACTCAT GAAAAACTCA TTGCTGTTGG TTGTAATAGA
 55681 TGTAAGTTTAT CCAATCTACA TTTTATTAA CTGTCAACCA CCAAAATATT GACTCAAATC
 55741 CTGCAGCTAT TTGATTTTGG GATTTAAATT GATCTGCTAT TCCCTGTGGG ACTCCAATTG
 55801 CATCTAAATA GATGTGAGAG TTGAAAGACA CATAAGGGTC TTCTCTTGCT TTACGATGTC
 55861 TTATTTTTTCC TCCCTCTGGT TGATGAAATG CTAGGGTGAA AGGGATAGCC AATTGGACTA
 55921 AAGTACAAGT GCCGCTCCAG TTATTTGGCA GAGTGCCCGAG TAAAGGTCCA CCACAATACC
 55981 ACCACACATC CGCTTGGGGA TGAACAAAGG CTGACTGATT GAGAAGCTCC TGAAAATTCT
 56041 TAAGCTCACT GCATCCCTTC AGGTCTCCAA GGAATGCTAA GTTTCCTCCC TGTCATGAGA
 56101 GACAAGAAGT GAACCTAGTT TTGGGAGATG GAAGCTGGAT GGCCCTCAGG GGTGACCTG
 56161 CAGGGTGCTG GACTTTGGGA TATAGCAGAG AGAGCTTGGC ACGACTTATT ACTCCAGGCT
 56221 GTAGAATCCT GGAAAACAGT TACCATGCAG CCCATGCCTG GTCAACAGGA GGACCACCTT
 56281 AGTGGAAGG GGATAATCTG GCCCTCTGCC CTGCCATGTG CACAAGCATA ACAATTGGTT
 56341 TTGTTTAAATG TGTGGACAGA ATATTTGATC CATTCCTCACT GGGCATTTCG ATCTTGGTAT
 56401 CCTGCTTAAT TATCAAAGTT TGTTTAAAGT CTTTAACTTC TATGACCCTC TAGTAAATG
 56461 AATGTATGAT TTTAGGAAAT TACAAAAACC GGTGTTGGGCA GTCCATCCTT GCTCTTAGT
 56521 GGTCCACACA ACATTCGACC AACTATGGCA TAAAAGCTCT ACATCGGGGG GCAAGACTCC
 56581 TCGTTGACAC TGGGGTCTTT ATTGAAATCT CTCTGGAATA AATGGTCTCA GTTTACTAAG
 56641 GCTCAGTCTG AGGAGAGTCA GGAGGGACAG AGGTACTTTT CTGAAGTACA GAGATGTCTT
 56701 CGACTTGCCA AGTCCCCACA GGGTATAACA AGGCAAGCAT TAAATTCAAT AGTTTGAGGC
 56761 AAAATTGACT TGGTTATGTT AATAACTAGA TGGTCAGAAA TAGAGTGAGG GAAGAAGAAA
 56821 GAGTAATAGA ATAGATGAAG GAGTTAAATT TTTCTTAGCT TTAGTTTGGT AGGGTTTTCC
 56881 CCTGGGACTA TGGCCCATGA CTCTGGAGGG GGTGGCACTT TCTTGACTCG GGTGTGATGA
 56941 GTCCATCCCT TTTTCACCGT ATGAACAACA GTCTCGGTGG TTAGCAGCAC AAGGTAGGGT
 57001 CCTTCCTAGG CTGGCTCAAG TTTTCCTTCT TTCCACCCTT TGATGAGAAC ATGATCTTCA
 57061 GGCTGGTGCT GGTTTACAGA AAATTCTAGG GGTGGTACAT GTGCTAAAAG ACTTTTAGTT
 57121 TTGAGGGAAA GGAAAGTGGA AGATAAACCA AGTATATAAC TTTAAGAAG TTGACCTTTT
 57181 GTTTTAAATG TGGGGACATC AGCAGTGGAC TTTATAGTCC TTGGTGCCCT CTTACTGAGA
 57241 AATTTCTTTT AGCACCTATT TTTATTAGTT TTTAGACCAA AGAAAGTCAA ATGCCATTTT
 57301 ATATTTGACA ACGCTTCTTG TATGTTTATA CCAGATAAGC TAGATTTTCA CTTTATATTG
 57361 GTGTGTTATT AATGTTAAAC TTAGTTTTTA TAAACTCTG TAGACATATT TATTTGATTT
 57421 TTAATGTCTG ACCATAAGGT AAGATTTTTA TAGACTTTTC TTAAACCTTT TATAATTTTT
 57481 GTTAAAGAAC AGGTTAGTGC TTTAAGAAAA ACCCGTTGTG TTTTATTTT AATGTTTCACT
 57541 TCACAGAAAA ACTGTATGAT ACCCCTTAAC TTTAGCCAAT ATGTTTAGAC ACAGAATTTT
 57601 CTTTACAATT AAGGTTTCAA AACTTGCTTA AACCTTCAA ACAATTTTTG TAACCTTTTA
 57661 ATGTAGGTAA AAATCCACAT TCTTATGCAT CCTCATAATC CTTTTACCAA AGGTATATTT
 57721 TACTTTCCTT ACATACCTTG CACATAAAT GTTTATTCAA TAGTTTTACA TTTAGAAGGA
 57781 GGCCTAATTA CTTTTAAATT ATACAACAT TCTTACATAA ATTTATTTTT CTAACACACA
 57841 TTTTTTTCAT GACTTTCACA GACAATTCTT CGACATGCCT CAACTTCTG ACTTATTGCA
 57901 AACATCCCTT TCTTTAAACA ACTAGTTAAT TTATCTCAGG ACAAGGATTT TCCATACAAC
 57961 ATTCTTTTTT ATATAAATTC TGCCTCCTCT TTATTTCTT TTTTTTTTT CCGAGGATGA
 58021 TAACCATTCT TTTCCAAAGC GAACCTCTTT TATGTCTGTG GACTAGACTG CTAAAGGCCA
 58081 CAAGATTAGA AGTTACTATA ATACATGTTA CACTGTAAAC TTTTAGCAAA CTTTACTTTT
 58141 GTTGAAAACC TTGTAAGTTT GGGATTTCAA TTATCCTTT CTATTAATAA GACCTTATTT
 58201 AGTCCAAATT AACTTAGAAT TGGTATAGAT GGCTTTTTT TTTTTTTAAT TACCTGGGAG
 58261 GAACCATCTA TCCTCCTGTC CTGAAGGGAG TTCTCCTAG GTCTGGTCAG AGCTTTGTAT

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58321	GGTAATTAAG	ATTTAGATCC	CCTGTTAGGA	AACCTGCCGG	GTAAAGAGAA	TTTTCAGTGG
58381	TTAATGTTAA	ATCATCTTCT	TTTTTCTTTT	TTCTTAGGA	TACTTCTGAA	CCGGTGAGGT
58441	GTGCTCACAA	TGAGGTTTCC	TGTAAGAGTT	ATTTTTTTAC	TTTCTTCTGT	TAGCAAAGCA
58501	GTTGCCGCTA	CAGATTGAAT	GCATTTGGGC	CATCCGCGGG	TTACTGGGTT	AAGGATTTT
58561	GATAGGAAGG	CCTTAATGCT	TTTGGAATAT	GCCCTGACAA	CAAAGTGCCA	GTTCTTCCC
58621	GGTGTTTCAGC	CACTGCGTTG	ATCCTCCACG	AGGGCCTGCC	ACGTGCTGCT	CTGGTGAGGC
58681	GTTCCACCGG	GGCAATTGCC	TACCTGGGAG	CGCTCTCCAG	ATCTGTGTCG	CTCAAAGTGG
58741	CTGGAGTTCC	CCGTAGGGAT	GCTCCACAGG	GCAGGCCTAA	GTCGCCTAAG	GGGCTGCCTT
58801	GACCGTCCGT	TAATCACCTC	TGTCTCCAAA	AACCAGCTCC	CTGAGTGAGC	AATTCCTGTC
58861	CCTTTTAAGG	GCTTACAAC	CTAAGGGGGT	CTGCATGAGA	GGGTCGTGAT	TGATTGAGCA
58921	AGCAGCGGGT	ACGTGACTGG	GGCTGCATGC	ATCAGTAATC	AGAACAGAAC	AGAACAGCAC
58981	AGGGATTTTC	ACAATGCTTT	TCCATACAAT	GTCTGGAATC	TATAGATAAC	ATAACCTGTT
59041	AGGTCAAAGG	TCGATCTTTA	ACCAGACCCA	GGGTGCGGTG	CCGGGCTGTT	TGCCTGTGGA
59101	TTTCATTCTC	CCCTTTTAAT	TTTTACTTTT	TCTTTCTTTG	GAGGCAGAAA	TTGGGCATAA
59161	GACAAATATGA	GGGGTGGTCT	CCTCCCTTAA	TTTAAACAAA	ATTTTCAAAG	TCCTACCCCA
59221	AGTAAATTGG	CAAATATTAA	CAAGATTATG	GCATAGAAAA	TAAAAATGAT	TGTAAAAGGC
59281	GTAAAGATAT	TTCTGTGGGG	AAAACATTGT	TTTCATTAGT	ATCAGTTAAA	ATTCTGTGAA
59341	AAATAACCAC	TAGAGACCTT	AAAGTACCCA	GGGGCTAATA	ATAAGAAGGG	AGGAACACCC
59401	TCTCACTCCC	CACCGTTACC	TGCCCAGAAG	GGAAGAGGAA	GAGGGTGACT	CCAGGAGAGC
59461	TGTGGTCTCC	CCTCCCCATA	TGTCCACATA	TACCTGACCT	CCCCCTCCCCA	AAATATATAC
59521	CCAATATCTC	TCCCATATAT	ACATATTTAT	CTGACCTCTC	CACATATGTA	TACCTAAACT
59581	TTCTCTATAT	ATCCACATAT	ACCTAACCTT	CTCACACACA	TATAGCTGAC	CTCCAGTGGA
59641	GGAAAAATGGG	GAAGAGAGAA	GAAGTTATCA	AAGGATAAAT	CTAGGTCATA	CTCAGAAATG
59701	TGAAAAACAA	AAACCACACA	CAGAAAAAAA	AAACACACAC	AAAAAAGAAA	TTGATAAATT
59761	TGTTTGTGTC	AAAATTAAGA	ATTCCGGTTC	AATGAAGGAT	CCCATGGATA	AAGTTAAGAC
59821	ACTGCTGTAA	GGATGGTAGA	GAATTAAATG	TCTGAATCAG	ACGAAAGGAT	GAGTAATTAG
59881	AATGCACAAG	GCCAAGAAGA	ACAAAACAGA	AACTCCACAT	AAAAAATGTA	TGAGGCCGGG
59941	CGCGGTGGCT	CATGCCAGTA	ATCCCAGCGC	TTTGGGAGGC	CAGGGCGGGC	CGATCAGGAG
60001	TTTGAGACCA	GGTGGCCAA	CATTGTGAAA	CCCCATCTCT	ACAAAAAATA	CAAAAAATTA
60061	GCCGGGCGTG	GTGGTGGGTG	CCTATAATCC	CAGCTACTTG	GGAGGCTGAG	GCAGGAGAAT
60121	CACTTAAACT	CAGGAGGCAG	AGGTTGCAGT	GAGCTGAGAT	CACACCATTG	CATCTCAGCC
60181	TGGGTGACAG	TGTGAGACTC	TGTCTCAAAA	AAAAAAAAAAAA	TTATATATAT	ATATATATAT
60241	ATATATATAT	ATATATATAT	ATATGAAATA	AATGAACAAG	AAATTTAGAT	ACAGGAAAAT
60301	CCAAAGCACT	TGGTAATGAA	AGAAAGGTAA	AGTGATGTGT	CCTTTTGCAT	TTAAAGAGAG
60361	GCATTAACAA	ATTAGAGAGC	TGAATAATGC	TCAGTATTGG	TGTGGATATG	GAGACTCAGG
60421	AATCCTCATA	CACTGCTGAT	GGGAGTGCCC	ACTCCCTGGG	AATATTTTCC	AAATATCATC
60481	TCAAACATAT	CCCATAAAGG	TGACAGGAAA	GTGTGGGCTG	ACTGATATCC	TTCAGTGAGA
60541	GAGGTGGAGG	TAAAATGAAG	TCACTGCACA	ATATAGAGTT	GGAAGCAATG	GATTAGATGT
60601	CCACATAGTT	ACGTGGAAGA	ATCCGTAAGA	TACACACACA	CACACACACA	CACACACACC
60661	TTTGTGTATA	TTGTTCTTGG	CAGGTAGGCA	TGGAGGTTTA	GAGGCTTTCT	ACATCACACC
60721	TACTGCACAC	AGTAAATGGC	CAGGCTGAGC	ACTGACTTCC	ATGAAGGGAG	ATTGAAGGTA
60781	AGAGATTGAA	GATTGTTCCC	TGGTCTGGGA	CCCTGCAACT	GAATATGCAG	AAAAAAGTAC
60841	ACCCCGCCAC	CCCGCTTCCC	ATCTTTCTTA	CCTGATTAGA	ATAGCTTTTT	CAGAAAACGT
60901	TGGCCAGGGG	TTGTGGCTCA	CACCTGTAAT	CCCAGCACTT	TGGGAGGCTG	AGGCGGGCAG
60961	ATCATCTGAG	GTCAGAAGTT	CCAGACCAGC	CTGGCCAACA	TGGCGAAACC	CCATCTCTAC
61021	TAAAAATATA	AAAAATTAGC	AGGGCATGGT	GGCACACACC	TGTCATCCCA	GCTACTCGGG
61081	AGCCTGAGGC	AGGAGACTCA	CTTGAAGCAC	AGTGATGGAG	GTTGAAGTTA	GCTGAGATCT
61141	TGCCACTGCA	CTCCAGCCTG	GGCAACAGAG	TGACACTTTG	TCTCAACAAC	AACAACAAAA
61201	CCCACCAAAA	CTTTAAATCT	ACCTATGGCC	AAATGCCTGC	TAAAATGAGC	ACCCAAGAAG
61261	CAGTGTTTCA	GAAAGTCAGA	TGAATACCCT	AAAATTAGAT	GCAATGTTGG	CTGGTCACAG
61321	TGGCTCAGGC	CCTGTAATCC	CAATCCTTCT	TGGGAGGCCG	AGGCGACAGA	TCGCTTAAGC
61381	TCAGGAGATC	GAGACCAGTC	TGGACAACAT	GGTGAGACCG	TGTCTCTACA	AAAACGTACA
61441	AAAATGAGCT	GGGAGTGGTG	GCGCGCACCT	GTAGTCCAG	CTACTCAGGA	AGCTGAGGTG
61501	GGAGGATCTC	TTGAACCCAG	AAGGCGGAGA	CTGCAGTGAG	CAGAGATCAT	GCCACTACAC

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61561 CCCAGCCTGG ATGATAGAGC CAGACCCCCA TCTCCAGAAA AAAAAAATAA AGAGAGAGAG
61621 AGATGCAATA TTTAGGGTTC AACAAAGACTG AATTTCTGAC TCCTTTCCCT ACCTCTCCAG
61681 CATGTTAGAT TCTGGGTCTT TCATCCTAAC CCCCTGTTCA TGCCATAGCC ACCCTGTGGT
61741 ACCAACTTTG GAAGCCTGGA TCTTCATCCC CTCATGATAA TGAGTGTCCC ATCAGGTCTC
61801 CATGCTCAGC TTGGCAAGAG TATCTGTCTT CTCCTCATGG GACGGTCACA TTCACCCAGC
61861 ACTGACAGGT TCCATTCCCA CTAGGGTGGC ACCCTATATG GTCTGAGTCC AGGCCTTCCT
61921 GGTCCCTCAG TAATCTCAGC ATGGTAGCAC AATCGAAAAG GGCTAGGCAC GGCAGCACCA
61981 TTTCCCACCA AGAGGTCTGA TGGCTCATCA CATAGACTGA AGGAGATTCT GAAGAGCAGA
62041 GGTGGAATGA AGAATGAATC GTGGGCTCTG CTCTTCCTAG GCCTGTCTTC CTCTCTCCCG
62101 AGATGTTAGC TAACTCATGA GAGCCAGAAA CCAACTGCAG GCTGGCCTCA GGCACCTAGG
62161 TAGTGCTTCA GCCTCAGCAG TCCACATTCT AGGAACCCTC ATAATATGGG TTGAAGTATG
62221 CATTCCCACA AAAATAAAGT TGTGTAAGTC CTAACCACCA GTACTGAAAT GGGAAAAGTT
62281 CCCTTGTCCT GCTCGCATGG CATGTGATAG GAGTGTGGCT AATTTCTTCA GTGCCTGGCT
62341 GCTCAAACCT CTAGGGGAAC ATTAAGACGG GCAGGTTGTG GGTCTCCAAC CCCATGACCC
62401 CACCACAGTG TCTAGGGTTG AATGTTTACA GTCCTGAAG CCACAGTGGG TGTGTGTTAC
62461 AGGGTGCTCT TTTAGTTTTG CCATTTATAG GCAGCTGGTG TTAACCAACT CAATTAGACC
62521 GTCTACCTTG TCCCAAGGAC AGAAGAAGGC TTTCTGTATC CCAGGTTCTT GCCTTGGTGT
62581 ACCGGAATAA ATCAGACCAC ACCTGGGCTT AGAGAAAAGAG TGCAAGGTTT TATTAAGTGG
62641 AGGTAGCTCT CAGCAGTTGG GCAAAGCCAA AAGTGGATGG AGTGGGAAAG TTTTCCCTTG
62701 GAGTCAGCCA CTCAGTGGCC CAGGCTCTCC TCCAACCACC CCAGTCAAAT TCCGCCTCAT
62761 TTTGCCAGGC AAACGTTTGT TGTGTGCTCT TCTGCCAGTG TGCTCCCCTG GACGTCCAGC
62821 TATTCTGTGC TTGTGGCAGG CCAGGGGAGG TCTTGGGAAA TGCAACATTT GGGCAGGAAA
62881 ACAAAAATGC CTGTCTCTAC CGTGGTCCCT GGGCACAGGC CTGGGGGTGG AGCCCTAGCC
62941 GGGGACCACG CCCTTCCCTT CCCCACCTCC ATATCATTTA AAGGGACCAT GCCCTTCCCT
63001 TCCCAGCACT TTCCCCCTCC TGTATCAGGA CCTGTGAATG TGGCCTTATT TGGAAATAGG
63061 GTCTTTGCAC TTCATCAGTT AAGATAAGAG TGGGCTCTAA CCAACATAA AGGGTGTCTT
63121 TATAAAAAGG AGAAATGTCA TACACAGAGA CTGACACCTA TAGAGAGAAA ATGTGGTGAG
63181 TAGACACAGG GAGAATCACC ATTCAAGTCA AGCAATGAGT CTGGGGATAC CAGAAGCTGG
63241 GAGAGAAACC TGGAACAGAT TATCCCTCAT TGCCTTCAGA AGGAATCAAA CCTGATGATA
63301 CTTTGATTTT AGACTTCCAG CTTCCAGGAC TGTGTGACGA TAAATATCTG TTGTTAAGCC
63361 AACGAGTTTG AGGTACTTTG TTACTGGCAGC CCCAGAAAAC TAATACAGTA GGTACTATGG
63421 ACTGAATTGA CTCCCCGTCG CAAAATTCAT ATGTTGAAAC CCTAACCCCT AGTGTGTGG
63481 TACTTGGAGC TGGGGCGTTT GGGGAAGTCAT TATATTTAGA CAAACTCATC AGGATGTGTC
63541 TCTCATGATG AAATTCATGC CCTTATTAAA AGAGACAACA GGCCAGGTGC AGTGGCTCAT
63601 GCCTGTAATC CCAGCACTTT GGGAGGCTGA GGTGGATGGA TCACCTGAGG TTGGGAGTTT
63661 GAGACCAGCC TGGCCAACAT GGTAAAACCC CATGTCTACT AAAAATACAA AAATTGGCCA
63721 GGTGTGGTGG TGCACGCTTG TACTCCCAGC TACCTGGGAG GCTGAGGCAG GAGAATCCCT
63781 TGAAACCAGG AGGTGGAAGT TGCAGTGAGA TCACACCACT GTACTCTAGC CTGGGTGATA
63841 GAGACTCCAT CTCAAAAAAA AAAAAAATAA AGACAATAGA GCCAGGTGCT GCAGCTGATG
63901 CCTGTAATTC CAACACTATG AGAGGCTGAA GCAGGAGGCT CGCTTTAGCC CAGGAGTTCA
63961 AGACCAGCTT GGACAAAATA GTGAGACCCC CAACTTCTAA AAATTTAAAA AATGAACTGG
64021 GTGTGGTGGT ACACATCTGA GGCTCCAGCT ACTCTGGAGG CTGAGGTGGG AGGATTGCTT
64081 GAGCCCAGGA GGAGGCTGCA GTGAGCCATT GCTGTCCAGC CTGGGCTACA CGAGAACCCTG
64141 TCTCGGGAAA AGGAGAAAAC AGTGAGACCT CTTTTTCTCT CCTCCTTCTC TCCACTGCCT
64201 AAGCCCTACA AGCACAATAA GGACACCACA GTGAGAATGC TGATGCCACC
64261 AACAAGTCAG GAAGAGAGCG TTCACCTAGA AACTGAATTG GCCAGCACCT GGATCTTGGA
64321 CTTCTGAGCT TCCAGAACTG TGAGAAAAGT ATTTTTTTTT TAGCGACTAA GTCTATAGTA
64381 TTTTATTACA GCAGCTCAAG GTAACATAA TAGTAGAAGG GATGAATTAT GGAGATCACA
64441 AGTCCACGCC TCCAGAAAAA GACTTCCCTA AAAATTAGTC TGAGCAAAAT TCGAATGATG
64501 AATTATTTTT AAGAACTTTT AAGGGATCTG ACAAGTTTGC AAGAGCTAGA GAATGCTTTA
64561 CAACGTGATA ATAGAATGCT CTGTGATGAC AGAAATCTTT CCACACTGTT CAAAACCTAGC
64621 TACTGGCCAC TTGTGACTAT TGTGCACTTG AAATGTGACT GGTGTCTGAG GAGCAGAATG
64681 TTTAATTTTA CTTAATTTTA ATTCATTACA ATAGCTACAT GTAGCTAGGG GCTACTGGAT
64741 TGAACAGCAC AGCTCGAGTC TTTTAGAGGG AGACAGGACT CACCAAGATG GATGCTGGT

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64801  GCCAAGCAGC AATGGCAGGT AGTACACACA CAAGAGGCAG ATGATACAAC ACATCCTTCC
64861  CAAACCTGGA GATAAGCTCA CCCCAACAATC CCGCCGCTGA AATAGAGTTG ATGTTACCAA
64921  TGTGCATTTT TATGTCCTTT TCCATACAGA AAGATCATTG AGCAAGTACT ATGGTACTTA
64981  AAAAACAACA TTCAATTCAT TATTATGACA AAATTAAATT AATAGCTCTT CCTTAAACTT
65041  TTAAATTCAA TTTACAATGC TTACTATTGG CATTTATTAA TCTACCAATT TTTTCCCATA
65101  GAACCCATAG AACAAATAAT CTACCAAATT TTTAACATTG ATTTTGGCA AGGCTTTTGC
65161  AATTTGACGA ACTTTAAGAA GAAAACCTTAT AAATTGCAAT TTTTAAATCT GACATACTGG
65221  ACTTTTAAAG TATCCAATTG ACTAATGAAC AAAACTGCTC CAAATTTTTC AATTCTTAAA
65281  AATCTTAAGA CAATACTTAA TATGGCAAAT CTTAACCTCT TAAACTTTGT AAGAATGCTA
65341  ATCAACTTAG ATTGGTATAA AGTTGAGTTA AAAATCACAG GATACATCAT CTCAGCTATA
65401  AGTTTTTCATG AGTTGAGTTT TTACAATCAC TTGAAATGCT TAGAATAGGA AATACGTATA
65461  AATTATTTAA CATAAAATAT TGTTACAAAA CCTCTGGAGT GTCAGTTTCT CTGGCCAGAC
65521  TTTATGCTGC AGCACCTTTG CCTGAGTTCT TGTCTGCAT CCAGGAAGAA TTAGGTACAG
65581  AGGCAAGAGT CAAGAAGATT AGTTTTCCAA TAGTTCAGCT CACCTAGTTA ACTCCTGTTT
65641  ACAATCTTCA AAGTTATCAG AAACCTGCAA TTGAGGGTTA TAATCCATTG TTTGCAGAGT
65701  TTCAAAACAA GACAACATTT GTCTATGAAT GTTAAAATGT CCTAGGGTAG TCACAGTCAA
65761  AAACACAATT GACAAAGAAA TTTAGTCACC TCTGTGATTT ACAATAGCCT AACACAATAA
65821  CTCTAATTAT AACTGATGAC ACAAACCTCAG ATATCAGAAC TCTAGAAATC CCCTATAATT
65881  TTGGAACACA CATTACAGT TTTCACTGAA ATATGACCTG AAGATCAAAT ATCACCTTAT
65941  TTCAACAATC CTATATAACT AAACGTGTCA AATGATCCTG TTTACCTCTC CTTTGGATAC
66001  TCCAGGGGCC CTCTGTAGCA TCCAAAAGTT AGGGGTTAGC AAAGACAATT TTGAAGCTGT
66061  AAAGGCTCAA AACACTTAAT GAACCTCTAG TCATATCTGT TCTCTACTCA CTAAATGCTA
66121  GTAGCACCTC TCAGTTGTGG CTAAGCTGGG AGGATCTCTT GAGCCTAGAA GTTTGGGGAC
66181  GCAGTGAGCT ATGATTATGC CACTGCACTC CAGCCTGGGC AACATGCAA AATCCTGTCT
66241  CAAAAACAAA AACAAAAAAC AAATTGCCTA TGCTGTGGTT ATCTCACAAT TAATAAAAAG
66301  GAAAAAATAA GTATGCAGTC TTTGTAGGTC CTTGGGGTTT GTTGAAGTCT AGAAAACAAT
66361  ACCCCAAAAT AAAGACCGCA GAAGCCAAAG TTTTCTCTG ATCTTCTCCT GCCCTCCTGT
66421  CTCTGAGTCC CATTCTCCCC GGAGCTTAGC CATAGAAATG AGAATTCCTC TTCCTCAAGT
66481  TAGGTCATAG AAATCAAAAC ACCTTTTCCC CAGAGCCCAG CCATAAAACC TAAAAATATT
66541  ACTCTAATT TCCCTCTGTT TTTCTGTGTA AAAACTGGCC ATAAAGAAAT TATCTGAAC
66601  ACCTTATTTG ATCATAGATC ACCAGACCGC ATTCCAGAGA GGATCCAGAA GGAAGGAATG
66661  CTGCACAGAG AGGCGAAGAA GAATCTAGAC AGACAGGCCT TGCTGGGTTT CCCTACTCTG
66721  TTTATTAGCA ATCCTATTTT TACACGGCGG CCCATACTTT GTTGAATCTA AAAAAATAAA
66781  ATGGACAATT TCCCCTGTAC ATGTTAATAC ACATTAATAA ATTGGATATA AATTGGATAA
66841  TTTATTAATA TACACATTAA TAAATTGGAT GCAGCCGGGT GCAATGGCTC ACGCCTGTAA
66901  TCCCAGCACT TTGGGAGCTG AGGCGGGCAG ACCACGAGGT CAAGACCACC CTAGCCGAAA
66961  TGGTGAAACC CCGTCTCTAT TAAAAATACA AAAGTTAGCT GGGCGTGGTG GCACATGCCT
67021  GTAGTCCCAG CTACTGGGGA GGCTGAGGCA GGAGAATTGC TTGAACCTCG GAGGCGGAGG
67081  TTGCAGTGAG CCGAGATTGC GCCACTGCAC TCCAGCCTGG TGACAGAGTG AGACTCCGTC
67141  TAAAAATAAT AATAATAATA ATAATAATAA TAATAATAAT AATAAATTGG ATGCATTTTA
67201  TCCTATTAAT CTTCTCTTGG TCGGTGGTTT TCAGCGACTC TTCAGAGGCC AAAGAGTAAG
67261  TTTTCCCTTA GCCCTACAG GTTCTTATGT TTAATTTGTT ACTCTCATTT AAGACATAAT
67321  TAAAGTGGCT TCTCCATGAA GATTATTTCT GCATCCATTA TTTGGTAAGA TTGGCCGTTT
67381  TCTCCTTTGA TCTCTACTTC AACTGACCC ACATAAAACA TCACTGCCTG TTTTCTTGT
67441  GTTGTGTTT GGAGACGGAG TCTTGCTCTG TTGCCCAGGC TGGAGTGCAG TGGTGTGATC
67501  TCCGCTCACT GCAAGCTCCG CCTCCCGGAT TCACGCCATT CTCCTGCCTC AGCCTCCTGA
67561  GCAGCTGGGA CTACAGGCAC CCACCACCAA GCCCGGCTAA TTTTGTATT TTTAGTAGAT
67621  ACGGGGTTT ACTTTGTAA CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCGGCCCCG
67681  CTCAGCCTCC CAAAGTGCTG GGATTACAGG AGTGAGCCAC TCGCCCCGGC CCCGTTTTTT
67741  TTTTGGTTT TTGCATGTCT TCTCCCTTTT ACTGTAAACT ATTTCCACTA CCAGCGTAGT
67801  TATCATTTCT ACTGCTTAAT AATTGTTTTT GGGAAAGTGA TGCATCAACC CACATGAATT
67861  TCTTGTCTAT TTGACAATTT ATTCTCTTTA GGAATAGTAT TAACTCCTAA GGTCTGGGA
67921  GCCAGTCTCT GACTTGGCT GCTCCAGGGT CCTACTTCAG TTTCCAGCT TCTCAGTACT
67981  GTCAGTGTCA ATTGTGGGTA ATAATTATTT TTGTCCACCA AAAGACTCTG TATGTGAATG

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SUBSTITUTE SHEET (RULE 26)

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68041 AGTTTTGAAA TCTGCTGAGT AATACAGTGT CAACCCAGTT AATGATTGTC CGGGCGGCTT
68101 GATCAGGGGC TGTCCAAC TA CCGGCATTTT GATTTGGAGC GTCATCTAGT GTCTGAAAGC
68161 ACAACAACA TCCTACATTG TAAATGCCTT TGGCTACAGA GATTGAAACC AAAGCAAACC
68221 TATGTTTGA ATTGTTATTC TTCAGCAGTT CTGCTAGCTT TGAAAAATCT AAAAGTTAAA
68281 AAAAAAGCTTT ATATTTTCATT TTCTGCCTAA ACTCTTTAAA ATTGCTAGTT GACAATTAGA
68341 TATTTTCAAT TTAATGAAAT TTTTTTTTAG TTCACAGATT AATACACAAT GGGGGAGGGT
68401 TCTTATTCTG TTGGACTTTT ACATAACCTC CACTTTAGTG CAGTCTGCTT TATGGGGTCT
68461 TGTTTGAGGT GTGTGTGTGT TTAAGGGAAT GTGGTTTACA ATCAAAATAT TGGGTTGCTC
68521 TTAGGCACAT TGTAAGTCA CACACCTGTA TTCTTATTGA TACATAATGA TTAATAACAT
68581 TATTATTACA GCCTGATCAC CATCATTATT GATATATCTA AATAATGAAT TTTATAATTT
68641 TGCTTCCTGT CAGGCAAGAG CCAATTTT CAG TGCTACCATG TTTGTATAGC AGTATTTATG
68701 TCTGTCATCC TCAGTCATTT TACTTCACTT GTTCTTAGCC AAACGGCCGA GAAGCGATGG
68761 TCATTTTACT TCAAAAATGA AAAGAATTAA TATTTTTTACG TTCCCTTAA AGACCCTATG
68821 TTTAACCTCC ACTCCTGGGT AAAATGGTCT AGTCCCTCCT TTTCATATCA TCTCTGATAT
68881 CTTTTCACCA GCCACTATTA CCTACCGTTT TCTAGATCCC TATTCTTCAA ACACCACCAT
68941 GAAGGTAGAG CCTGTCTGAA TTATTTTCTT GTCCCCTGAA CTCAGTACAT TGTTAGGCTT
69001 CTTGAAGATG TTGATCAGTT GTTTGTGGAG TGAATGAATC AGCTAGCATG ATTTTCTAG
69061 ACCACTGAGA CAAGTGTCTA AGACATTTGT TCCTTCCCAT GTTCTTGCCT GCCTGTGCAA
69121 TCCATGCAGT CTCATGGCTT CCCAGTGCCT CAGAATTATC CCCTGTCAA CAGGCATTAT
69181 AATTTCTGTC CACTGAAAAG GACAAAAAAC TAAGTGTATA GCTAGAAATT AAAAATTACC
69241 GGCCAGGTAC TGTGGCTCAC TCCTGTTATT CCAACATTTT GGGAGGCTGA GCGGGGCGA
69301 TCACCTGAGG TCAGGAATTC GATACCAGGC TGGCTAACAT GCGGACCCCG TCTCTATCAA
69361 AAATGTAAAA GTTAGCCAGG TGTGGTGGCT CGCACCTGTG GCCCCAGCTA CTCAGGAGGC
69421 TGAGGCAGGA GGATCGTTTG AGCCCTGGAG GTTGAGGCTG CAGAAAAATA GGAATATACT
69481 CTCTTTCAAG AGTTCGTGGT TTTGACTGCC ACCTAGCGTA CATCAGAAAA ACCGCATGAC
69541 ATAGGAAATG CCTGTGACAG AGGGGTAAGG TGAGAGAGGT TGATGAAGAA TGTATTGAAG
69601 GAGTGAAAC GCTTCCATCC CTCTACTTAC TAAATATATT AGTTAAGTAG TTGGGGCATA
69661 TTTTAATTCA TGCATTTTGT AGATAGAAAA ACAAAGTTT TATTCTGTTT GATTTAGTTG
69721 ATACTTTAAT ATGTGTGTGT TTAGGATGCA TGATTTATAA TCAGTCTGCA GCACTTCTTG
69781 GAGAAGTCTG AATTCTCATT TCCCATTTCC TTATTGGCAA CGTGAGAATG ATTACAATGG
69841 TGGTTGTCTC ATAGAATGCA GGGAGTCCGA ATGAAAATAG TCCATATAAT GCCTGGTGCA
69901 GAGGAAGGGT TCAGTTAACT GTCTGTATTA ATATTACTGA TAACAGTCAAT GACAAACAAA
69961 AGCTTAACAA CAACACCACC AACACAGTT GCAGAATTGA GCCACCAATT TGCACACAAG
70021 ATTGTAGGTA GGATGTTTTA GAAAAGTTAT TATTTAATAT ATGTATATAT TTTTGTACTT
70081 AAAATATGTC AGAGGTGTGT CTAAGAACTA TTTAAATGTT AACTCCTTAA TCCTCATAAT
70141 GACCCATGAA ACAGGTAGGC TTATTATTGT CTCTTTACAT GTGAGAACAC TGAGACACGA
70201 AAAGGTTTAT TAACTACCCC AAAGTCACAC AGCTGGTAAA ACGGCAAAAT TGAATTTGAA
70261 CTCAGACATT CCAGGTCCA AGACAGTCTA ATTATTCTTT TGAATAATAT ACTAAGCTGC
70321 CTCTGTATTT TTCCTTGATT ACTTTGTAAA AGTATGAGGA AAATATAAGT GCTTCAAGTA
70381 ACCATGAAAA ATATAAACAA TCTATGTATC AACTGAAGCA TAATTACAAA TCCTTTGATA
70441 AGCAACATA ATAAAAATTT GATATCAATC AAAACTTTCA TGTAATGTAA GCAGGTTGAG
70501 ATGAATTTCTA TAGTAAAAAA GTGCAGAGTG CTGGAATACC ATGCTCCTAA TATATTGGCT
70561 AGGCACACCT GCCTGCTATC AAAGGTATGC ACACACCTTG GATACAGAAA GTTGGGACTG
70621 GGTAGTTATG TGAGTGTATC CAGAATTCTT TCCCACCTGG GAAAGAATTG TCCATCATAA
70681 GCTTGGATGA TGGACAAGGA GTGAGCTCCC AGAACAGTGA TGTGGGGATA CATCCTCACA
70741 TCACAGTGAG AATGAGTGTT CTAGACTGTT TACACACCTA CCACTCCTAA ATGCACACAT
70801 ATAATTGCTT GCACACACAC ACATACACAC TCATCTCTTC TCTGGTGGTC CAGCTCTATC
70861 TCTTATCATT AGGCTTCTTG GGGCTAGTAC CTAGGGCCTG TATCCTTTCA GAGGCAGCTA
70921 AGGGAAGCAC ACATAATTAG AAAGAATGAA CCAGCTTGTT GGATTTGGTC TCTTCGCATC
70981 CAGCCCTCCA AGTTAAGGAG AGTACCATCT TTCTTAGGGT CACCAAAGGA AAAAAAATAA
71041 AAAGAAAGAA ACAGAAGGAT ATCATACAGC AAGGATCTAA TGCAAATATG CCTCAAATGA
71101 GAGGCTACTG TGTGCTGATC CCAATCCCAG GAAGTGTATG CACATTATCT AATTTAATCC
71161 TCACTGTATT TCTGGGAGTA TTATTCCCAT TTTACAGAGA AGGAACTTGG CAGGGTAACC
71221 AAGCTCATGA ATGGAGAAAC TGGGATTAAA TATAAGCTT CCTTGCTCCA GAACTGCTGT

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71281	CTTTCTGCTC	TTCCACACTA	CCAGCTCAGC	TGTGCTCTCT	ACATGCAGGC	AGTTTTACAA
71341	GTTTCAGATT	AGCCTGGGAC	TTCCAGGGTT	TTGAATGGGT	TAGGGAATGG	GGAACCTTTG
71401	GGTTTACTTT	CCATTTTTTC	TTCATACATA	TGTAATATAT	AACATAAATC	TATGGTATAT
71461	ATGATAAATA	TATGGCTACA	TATGAACTAT	ATAATCACAT	ATATGCATTA	TAAATAAATA
71521	TTAATTTTAT	AATATTTTAA	AGGTTATCAA	ATAAATATTA	ATATAAATAA	TTAAATAAAT
71581	AATACTCAGC	TTTGTTTTCC	AAAGTGATAA	ATGCCTATAT	TTAGCAAAAT	ATTTTTTTGGA
71641	GGCCTGATAG	TTTTTAGGAG	TGTAAAGAAG	TCCTGATATC	TAAATGTTTA	AGAACCACTA
71701	TTTTAGGCTG	TTGTCCTCTG	TCTTATTTTC	CCAGCTAGAC	TGGTAAATAC	TTGAAGGCAA
71761	ACGTTTAGCC	AGCACATTAA	CATTTTATGT	TTTTATTCTT	TTGTGCTCTC	AGTGGCTGTG
71821	TCTTTTCTAT	CGATTTCTCA	CACGTGATGA	TGGTTATATT	TGTCTGTATC	TGTCCCACCA
71881	GGTATAAGTT	CTTGAGAGGA	CACACTGCTA	GGCTGATCTT	AGTTTTTATT	ATTTCTCCTG
71941	GTGTCCTGTG	CTTAACAAGT	GCTCATTAA	TGTGTAAAAA	CACAGCACAG	TAAAAAATA
72001	GACATTAAAA	AATAATGTCA	ACCAATCTAT	TGAAATTTGC	ATTTCCATGT	TTCTTCCAAT
72061	ATAGTCATTG	TGTCAGGTTA	TGTACTTATT	CTGATGAAGA	CTATTGCCTA	ATATACGTTT
72121	GCATCTTGTG	CTTTATAACT	GCCTTCATAT	AGACACAGAT	TGAGAAGGTG	TAAAAATGTG
72181	CATATCCTCA	CAATTGACAA	ATTCTTATCC	TTTGAGGGTA	GGTTTGACTT	TCTGAAATGC
72241	TTTGACATCA	TTTGAAAGAA	GCTTGAAGAA	TAAGATAGCT	GTTAATGACC	CAGTTTCCTA
72301	TGTCACCTAT	ACAATTATAA	TGGCAATTTT	AAAATGTTAG	GTAATATATAT	TTTGCAATAT
72361	ATTGTTCCCTT	TTGTAATACT	CTCTATGTAT	TTATTTATAT	TTTTAAATTT	TATATTTATG
72421	TATTTATTTT	TCTGGACAGA	GTCTTGCTCT	GTTGCCCAGG	TTAGAGTGAA	GTGTTGTGAT
72481	CATAGCTCTC	TGCAACTTCA	AACGTGCTTG	CAAAAGTGAT	CCTCCTGCCT	CAGCCTCATG
72541	AGTAGAGTAG	CGGGAACCTAC	AGGCGCATGC	CACTGCACCC	AGCTAATCAC	TATTTATTAT
72601	GCTCCTACTG	TGTGCTTTAG	TATATTTTCT	GTTGTTTTCT	GCAACCCATT	TTGAGGGCGT
72661	GTTAGGGAAT	ACAGATGCAG	TAACTTTTCG	CTCAGCCCTT	GAGGTGAGGA	AATATTTAGC
72721	CTCAGGTTTA	ATCTAATTGT	TGGCCATTTG	CCTTCAAAGA	TTGAAATATG	AGCAAACTG
72781	TGGCTCTGGG	TTATATGTTA	AAAAAAAGTT	TATGGGGCTG	AAGCCAGGCA	ACAGACAAGA
72841	GCCCCACAA	TCTTATTTAG	GCTGAAAATA	TCCTGGAGTC	CCTGTATTGT	TGGTCTCAAG
72901	CAGATAGCAA	CACTAACACT	TACTCTTTGA	GGCAGGCACT	GCCAGTGGGG	TGGCTGTTAT
72961	TATTAGCTTC	ATTAATTGGT	GAGTCAGGAA	AAAACAGCTT	TAAATCATTC	AAAGTTCTGG
73021	CCTATACAGG	ATTTAGTAAT	ATTAGGTTAG	CTACATCCAA	AAGATGACAG	AACCCTACTC
73081	TAAGGCTGGG	CTTGGTGGTT	CACACCTATA	ATCTCAAAC	TTTGGGAGGC	TGAGGCAGGA
73141	GGATCACTTG	GTGCCAAGAG	TTTGAGACCA	GCCTGAGCAA	CATAGTGAGA	CCCCTGTCTC
73201	TATCAAAAAC	AAAGAACTCT	AATTGGCATA	GTAAGAAGAA	AAAGTGAAAG	AAAAACCAGC
73261	TGTCACCCCTC	ATTCCCTTACA	CCTGTCCTAA	CAACTCCTCT	CACTATCCTT	TGAATATATC
73321	TTGGCTGTTT	GAGTCTCTCT	CTAGCCCCAT	TACTGCTGTT	TGGACTTGAC	ATTTTGCTCT
73381	GCATTTTTAA	CTTTTCTACC	AGGGTTTCCA	GACCCTGAAG	AGTGTGGCAT	GAAACAAAAC
73441	TAGTCAACCT	ATAATATTTA	TGATGTGTGT	GTAAATAAAA	GAATACACAA	TATATTGCAT
73501	TACAATATTT	TAACTGTGTC	CTCAATTTGT	TTGTGGCTTT	CTTGAGGACA	TCAGTTTTTG
73561	GTGGGACGAC	CACATCCTTA	ATCTGAACTT	TCCCTTGGAG	GTCATTCTTT	TTTTTTTTGAA
73621	ATAGAGTCTC	GCTCTGTCAC	CCAGGCTGGA	GTGCAGTGGC	GCAATCTCAG	CTCACTGCAA
73681	CGTCCGCCTC	CTGGGTTCAA	GTGATTCTCC	TGCCTCAGCC	TTCCAAGTAG	CTGGGATTAC
73741	AGATGCACGC	CACCATGCCG	AGCTAATTTT	TGTATTTTTA	GAAGAGACGG	AATTTACCA
73801	TGTTGGTCAG	GCTGGTCTTA	AACCTCTGAC	CTCATGATCT	GCCCACCTCA	GCCTCCTAAA
73861	GTGCTGGGAT	TACAGGCGTG	AGCCACCCCG	CCCGGCCAGA	GGTCATTCTA	ATAGACTTTT
73921	TTTTTGTTGT	TGCTCACAGG	CTTGTTCAAT	CTTATTTCAA	AATTTGAGAA	ATACAGTTTC
73981	CATGGAACAC	CAACCAGATA	TCAGGTTGCT	ATGGAGTTGA	TAGTCAAAAG	CTTTGTATCT
74041	TCCAGTTTTT	CAGAATGGCT	TCTAAAGGTT	CTGATTGAGA	GCTCTTAGGC	GAAATTGAAC
74101	AACCAAGTGT	CAAAGTACAA	CATTGAGGAA	GTTAAAAACA	TGACTGACAT	ATATGTACTA
74161	TATATAGTGA	GCTTGTGTAT	GTGCAATGTA	ATGATTTAAT	TCATTAATGA	AGGAGGAAGC
74221	AGAATCACAA	TTAGGTCAAA	GGAAGATACG	GGAGAATAAA	ATATGTATTT	GGTCAGGGAA
74281	AGGATGTATA	CTGGAAGAGG	AAGGGAAAAT	CAGATATAAA	GTTGTTTAAT	GACTTATTAG
74341	GCAATACAAT	AATAACTTTT	AGGGTCATTT	TTTCTATATT	AAGAATTCAT	TTCCATCTCT
74401	ATGACAAAAT	CCTTATTAAT	TTATTAAACT	TCTACAAGTG	AATGTTTACT	TTTAGATAGT
74461	CTGGACCCAA	TAAAATGTAA	ACATTAAGTC	AGAGTTACTT	TCACGTAGGA	CAGTGTGTGC

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74521	CAATAAGGTA	CCACTAGCTA	CACGTGATCA	TTGACCATT	GGACTATAGC	TAGACTGATT
74581	TAAAATGTTT	TAAAAGTGTA	AAATACACAC	CAGGTTCTGA	AGATTTATCA	TTTAAAAAAG
74641	AATGTCAACT	GTCTTTTTTT	TTAGCTTATT	TATTATATGT	TGAAGTGATA	ATAGTTTAGA
74701	TATATTAAGT	TAAATAAAAT	ATCTTAAAT	TAATTTTACT	TGTTTCTTTT	CATTCTTTCA
74761	ATGTGACCAC	TAGAAATCTG	GAAAGTATTT	ATGTGATTCA	CATTCTATTT	TACTGTCTAG
74821	TATTGCCTTA	CATCATCAGG	TACCCCATAA	GTAGGCTTTT	TAGATAATTC	TCTAATATAG
74881	CTTGGAAGGA	TATGGAGAAA	TATTTTTGCG	TTGCTTTTAA	GTTTTGCATA	ACTTTTTCAA
74941	CACACTTTAT	AAAGGATCTA	GAAAAGGGTT	GGTTACATGT	TTCTCTGTCT	TCTGGCCTCC
75001	ACCATGTTGC	CAGGAGGTTG	GGGACAAGAT	TCTGGGTGGC	TGGATGTCCT	AATGGCTTGA
75061	GGTCTGGACT	TGAGATTGTC	ATATAAAGAG	ATGTGATTAG	ATTGAGTCGA	CTAGAAAAAT
75121	CATATTAGAG	AACTGAATCA	CAGCGATTAA	ATTTACATGT	CGATTTATAA	ACCAGGACAC
75181	CAATTTATAG	TGAAAGAAGG	TCCAGTTACC	TGGTAATCAA	GACGTTTCAT	AGCTATTTTC
75241	ATGATGGATA	TACTTAGCTG	AGTTTTAAAT	GAGAAGGGGG	TTCATTGCAC	ATAGAATAAG
75301	ATCTAAGTGA	AATGTTTATT	TTATTTTTTT	TTTTTTTGACA	TGGAGTCTTG	CTCTGTTGCC
75361	CAGGCTGGAG	TGCAATGAGG	CAATCTCGGC	TTCTGGAGTG	CAATGAGGCA	ATCTCGGCTT
75421	CTGGAGTGCA	ACGAGGCAAT	CTCGGCTCAC	TGCAACCTCC	ACCTCCCGGG	TTCAAATGAT
75481	TCTCCTGCCT	CAGTTTCCTG	AGTAGCTGGG	ATTAGAGTTG	CCTGCCACCA	CGCCAGGCTA
75541	ATTTTGTAT	TTTTTTTAGT	AGAGATGGGG	TTTCACCATG	CTGGCCAGGC	TGGTCTCGAA
75601	CTCCTGACCT	CAGGCGATCT	GCCCCCCTCA	GCCTCCCAAA	GTGCTAGGAT	TACAGGCGTG
75661	AGCCACCAAG	CCTGGCCTAA	GTGACATGTT	CTTATATTGT	TCCTTTCTTT	CTTTTTTTTT
75721	CGACTGAGTC	TCACCCTGTT	GCACAGGCTG	GAGTGCAGTG	GCGTCATTTT	GGCTCATTGC
75781	AACCTCTGCT	TCCCGGGTTC	AAGCGATTCC	CTTGCCTCAG	CCTCCTGAGT	GCCACCACCC
75841	CCAGCTAATT	TTTGTACTTT	TAGTAGAGAT	GGTGTTCAC	CATGTCGGCT	AGGCTGATCT
75901	CAAACTCCTG	GCCTCAGGTG	ATCCGCCCCC	GAGTCTCCCA	AAGTGCTAGG	ATTACAGGCG
75961	TGGGCCACGG	GGCCAGCCT	TATATTATT	CTTTTACTAC	AATATATTAG	TATGATGCAG
76021	GTGCTTCAAT	TGTTTATACA	CTTTCCATAA	TTTTGTATAA	TTCTTATACC	CTGTCACTCT
76081	GAGGAATAGC	CGGTCTAAGT	GTTTTTCCAC	CACCTGCTAAT	TCATCCATCA	CTAATCTCAT
76141	TAGACTGTTA	ATTCCCAGAG	GACATAAGCA	CACAAGCAGA	CAATGTTTAC	AAATGTTGGA
76201	CAAATGTTAT	TTAATAAAAC	AATGGGGTCA	CCCTTAGTCT	AAAAGATGTT	TCACTTTTCA
76261	TTTGTCAATT	AACTCTTATT	TGTAGGTTCC	CTTTTGACTT	TCCCACAATC	TAAGGCTGTT
76321	CTCTTTAACA	CATATTTTCA	TGAAAACATA	TATTTGAGCA	GAAATTGTTG	GGGAGTTGTA
76381	ATATTACCTT	TGTCCTTAAA	TATGAATCTA	TAATTATATC	AAATATATGG	GCAGACAATT
76441	TACTTTGCCT	TTAATCTCAA	GAAAAAAATA	GCAATTACTT	GGGGTCGGAG	AGTAAAATAA
76501	GAAGTAGTGA	ACCTTAAAGT	AGCAAACCTT	AGAACAGAAT	AGTTTCAGAG	GGGATGAGAA
76561	GAGGTGATTT	TTCAGCTCAT	CAACAACAGA	TCTTATAATA	AATTACATGT	TCTGGTACTT
76621	TTCTTGCTTT	TCTGTGTTAA	ATTTTGCTAT	TTAAAAAAAT	AAATTTCAA	TACATTGTTC
76681	ATCTTAAAAG	TCAAGAGTGT	GTTTTATTAA	AGTCAGTTGC	TTTATTTGCA	ACTCAAAAGA
76741	TATATTTGAG	TTCCCAACTG	GAGATTGTCC	TATATGGTAA	CTTGCGTAAG	GTATGGTTAC
76801	TGAAAGTAAC	CTACAATTTT	CATGGGCTGA	AATTCATTTC	TATATTGCAG	CGTACAAAAA
76861	TAAATAAATA	AAAAATGCTT	GTTTTCTTTG	AAAAACATAT	ATCTCAGTGC	CTCTAACTGC
76921	CAAATCTATT	GGCTTTTTTG	CAGGCTTAAG	GGCTCTCCCT	TGTTCCTTTA	TGATCTCTAT
76981	CTTGAGGGCC	AGACCTCCTG	CCTTACACAA	CTCAGAGGGG	GACCTCAGAG	CTCTTTAAAA
77041	AGAGCCCAAT	TTCTCGCCTG	TAGAGAAGTG	AAAAGGATGC	CCCACCCCA	TCTATGAAAA
77101	GAGGGATTTG	ATAGTTTCAA	TGTCTTCAA	TCAAAGATT	AAGTCTGTAG	CCCCCACCA
77161	CCCCGGACCC	TAGCAAGGCT	CATGAACCCC	CTCCCATCCC	GCCCTAATTG	CTTTGGACTG
77221	GCCGTGGAAT	CCTTGTCCTA	GTCCACAGTT	CCTGTGCGAC	TGCACGAAGA	ATTCACAGAG
77281	GACCTGTGTT	ACTTCCCTTG	TGAAGAAACA	GAATTATCAT	GAAAATTTAG	GTGGAAACCA
77341	TTTCGCTTTT	TTCTTCAAAA	ATAAGGGAAG	CATGTGCCCC	ACCACCCCTG	GGAAAAAGAA
77401	CCTTCAGGGG	CAAAGGAGCG	AACAGGTAAT	TTATAAGAAA	AACAGAAAGT	GGTCTCTGAC
77461	TGCCCCAGAC	TTCTTCGGA	GTTGGGGGAA	TTGGGGACGC	CTGGACGCGT	TGTTTTTGTG
77521	TTTGTGGAAA	AAATAAATGA	AGAGCATGAA	GCCCCAGGCT	TCTGAGATCC	TTTCTTGACC
77581	AAACCAAGT	GATTTGGTGC	GGGGAATTTT	AATATTTTTC	CCCTTTTGTG	AGGTGGAACA
77641	AACACAACTT	GGGAGCAGCG	CAGCGGCTCA	GAGCCTGCCA	GCCAGGCGGG	CGACCAGAGC
77701	ACCAATCAGA	GCGCGCCTGC	GCTCTATATA	TACAGCGGCC	CTGCCCAGGC	GCTGCTTCAT

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77761	CGGCGCTTTG	CCACTTGTAC	CCGAGTTTTT	GATTCTCAAC	ATGTCCGAGA	CTGCTCCTGC
77821	CGCTCCCGCT	GCCGCGCCTC	CTGCGGAGAA	GGCCCCCTGTA	AAGAAGAAGG	CGGCCAAAAA
77881	GGCTGGGGGT	ACGCCTCGTA	AGGCGTCTGG	TCCCCCGGTG	TCAGAGCTCA	TCACCAAGGC
77941	TGTGGCCGCC	TCTAAAGAGC	GTAGCGGAGT	TTCTCTGGCT	GCTCTGAAAA	AAGCGTTGGC
78001	TGCCGCCGGC	TATGATGTGG	AGAAAAACAA	CAGCCGTATC	AAACTTGGTC	TCAAGAGCCT
78061	GGTGAGCAAG	GGCACTCTGG	TGCAAAACGAA	AGGCACCGGT	GCTTCTGGCT	CCTTTAAACT
78121	CAACAAGAAG	GCAGCCTCCG	GGGAAGCCAA	GCCCAAGGTT	AAAAAGGCGG	GCGGAACCAA
78181	ACCTAAGAAG	CCAGTTGGGG	CAGCCAAGAA	GCCCAAGAAG	GCGGCTGGCG	GCGCAACTCC
78241	GAAGAAGAGC	GCTAAGAAAA	CACCGAAGAA	AGCGAAGAAG	CCGGCCGCGG	CCACTGTAAC
78301	CAAGAAAGTG	GCTAAGAGCC	CAAAGAAGGC	CAAGGTTGCG	AAGCCCAAGA	AAGCTGCCAA
78361	AAGTGCTGCT	AAGGCTGTGA	AGCCCAAGGC	CGCTAAGCCC	AAGGTTGTCA	AGCCTAAGAA
78421	GGCGGCGCCC	AAGAAGAAAT	AGGCGAACGC	CTACTTCTAA	AACCCAAAAG	GCTCTTTTCA
78481	GAGCCACCAC	TGATCTCAAT	AAAAGAGCTG	GATAATTTCT	TTACTATCTG	CCTTTTCTTG
78541	TTCTGCCCTG	TTACTTAAGG	TTAGTCGTAT	GGGAGTTACT	GAGGTATCAG	ACGAATTGGG
78601	TGACGGGGTT	GGAGAGTGGC	CGTGGTGAGG	TTACAGCATT	TAAACCTTTA	TTGCGGCTTC
78661	TAGGTCCCTG	ACCGGAGGCT	TTTCTCGCTG	CGGGATGGTT	TTGGGATGGC	AGTCCCGCCC
78721	CAGGCCTGTG	AACGGCAGAA	AAGACCGCAA	AACAAGAGCC	AGTTTCTTAG	TCTAAAGGGA
78781	TGTCGGGATT	GGACTAAAAA	ATTTTCAAAA	GTCCCGCCCT	GCTCCCGGGT	TGGTCCGTTC
78841	TTCTAGTACA	TGACTTTCAT	TCTGTATTTA	ATTGGATGGT	GGAAGACGTT	GCTTATTCTG
78901	TGTTTTTTGC	TTTACTGTGA	CTTAAAGTTT	TTGCCTCTTT	TCTCTTTATA	TTAATGTCTG
78961	GGATTTTCGA	CGCTTTCCAT	GTTGTTGGTA	GTCAAGTTGA	TGTCTCCTGG	AGGTAGTGGC
79021	AACATCCAGC	CCTGGGAGGA	GAGTGC GTGC	AGGTACCTTT	GTCCTACATT	CCTCTGCTGT
79081	TAATTTCTCA	TTCCTGTGGC	AACGAAGGAA	TGCATTTAAA	AAACAGCCAC	AACAGCGGCA
79141	ATAGCCCTTC	CTCCACCCAA	GGCAATCGTG	GACCTAGGGA	GTTTTTTTGTG	CCACATAACA
79201	TGTAGCCCTC	CGCTAAACTG	ACAGGTTTGA	GCGTATCGAT	TTTGAGCGTA	TCGAAAGCAC
79261	AACTTTTAGC	CAGCCATTTT	GTCCTCGCAT	GACTACGGTT	GCTTATCCTG	TTTAGACAGA
79321	CAGCAACATT	TAAAAATCGA	AGTTCCTTTA	AACGTATTTT	GTTTGGCAGT	CCAAATGTTT
79381	CTATCGAGAA	AACAGTATTT	GTACTATTAA	CTATGAAGAG	TGTATGGATA	AATGGGAGAC
79441	ATTTCTAATA	AAGGCCTTCG	TTAATGGTTC	CCTCTGTTTG	ACATCCATGG	TGCTTCTGAA
79501	TACAGAAAGC	CTAGCGTCTT	ATATTCGCTT	CTTTTAAAAT	CTGGTGGGCA	CATTTTGGTG
79561	AGACCTAAAT	TATGGGGACT	GGGGCTTCTG	GAGATAAGCT	GCTCAATTAT	TCTACCATTCT
79621	CCACAATGAT	TAATATAGTG	AGTTGATTTG	TTAGTGATAG	TGACCACGGA	TTTATCCCAA
79681	GAAAGAGAAA	GGGGAGGGAG	GCAAGCAGAG	AGACAGGAAG	ACAGAGGCAG	GGAAGAAGGA
79741	GAAAACATTG	TCCCATGGTT	TAAGTAATTT	TGTGTTGTGA	ATTTTACATT	ACAACACGGT
79801	TTAACATGGT	GAACCCTCTA	TTTTGGTGTA	AGGTTTAAAC	TATGGACATA	TTTTTCCCAA
79861	GACCATTTAT	GAACTTTCAT	TTCTGCTTCC	CCCTTCTTCC	TCCCGTGCCA	CCCTCCACGC
79921	TCCTATCAAT	TTTGGCTGTT	TTGTTCATAGG	CTAATACGCT	ATAATTTTCAT	GGACAGTTGG
79981	ACTGTCTTAG	GTTTCTCAGG	TTTCTATTTT	GTTCCCTTAG	TCATTCCCAC	AATTCTTAAG
80041	GTAGAATTGT	ATTGTTTTAA	ACATTGTGTT	GTGTGCTATC	CTCAATGCTG	AGATGATTAT
80101	GTGACAAATG	GCAAGTGTTT	AACTAATACC	TAAATCTGTA	GTATCTTATC	AAGCCTAATG
80161	CTACTTCACA	ATGCCTACTC	CATTACCTC	ACTTTATCTC	ATTACTGGCA	TTCTGTCTATC
80221	TCACATCATC	ACAAAGTAAAA	CGGTAAGCTA	TTTTGAGAGA	GATCACAGTC	ATATAATTTA
80281	TATTTATATT	TATTTATTTA	TTTATGAGAC	GGAGTTTCCC	TCTGTCACCC	AGGCTGGAGT
80341	GCTGTGGCAC	GTTCTCGGCT	CACTGCAACC	TCCGCCTCAC	GGGTTCAAGC	GATTCTCCTG
80401	CCTCCGCTC	CCGAGTAGCT	GAGATTACAG	GGGCCTGCCA	CCATGCCCGG	CTAATTTTTG
80461	TATTTTTAGT	AGAGACGGGG	TTTCACTAAG	TTGGCCAGGC	TGGTCTCGAA	CTCCTGACCT
80521	CAGGTTATCC	GCCCACCTCA	TCCTGCCAAA	GTGCTTAGAT	TACAGGCGTG	AACCACCGTT
80581	CACAGACTCA	AATCATTTTT	ATTACAGTAT	ATTGTTATAA	TTGTTGTTTT	ATTATCAGTT
80641	ATTGCTAATC	TCTTACAGTG	CCTGATTTAT	AAATTAAATT	CATCATTGCC	ATGTGTATAT
80701	AGAAAAAAAC	AGTGATATATA	CGGTTTCAGTA	CTATCTGTGG	TTTCAGGCAT	CCACTGGGGG
80761	TGCAGTTTAT	TAAACATGCA	TTTACATTAG	TCTCCCCCTT	GGGAGACTAA	TTAACTGAGA
80821	TGTTGTAACG	TGACTTTAAT	AGCAGATAGA	GCTAATTTTC	TCTCATTAAT	CTTCTTTTTT
80881	AGAATTTTCC	TGGTTATTCC	ATTTTTTATT	TTTCCATATG	TATATTAAGA	TCTCTTCCAC
80941	CTCCTCCTGT	TTCTCCATCT	CAACATCAAA	CAATTAAAAA	AAAAAAAAG	GCTGGGCGCG

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81001	GTGGCTCACG	CCTATAATCC	CAGCTCTTTG	GGAGGCCTAG	GCGGGTGGAT	CACGAGGTCA
81061	GGAGTTCAAG	ACCAGCCTCG	CCAAGATGGT	GAAATCCCGT	CTCTACTAAA	AGTATAAAAA
81121	TTAGCCAACC	ATGGTGCCAG	GCGCCTGTAA	TCCCGGCTAC	TCGGGAGGCT	GAGGCAGAGA
81181	ATTGCTTGAA	CCTGGGAGGC	GGAGGTTGCA	GTGAGGCGAG	ACCTTGCAC	CCAGCCTGGG
81241	TGACACAGCG	AGACTCCGTC	ATAAAAAAAA	AAAGCCGGAA	GCAGTGGCTC	ACGCCTGTAA
81301	TTCCAGCACT	TTGGGAGGCT	GAGTCAGGCA	GATTACCTGA	GGTCAGGAGT	TCAGGACCAG
81361	CCTGGCCATG	AAAATACAGC	CTGGCCATGA	AAACACACAA	TAAATTAGCT	GGGCGTGGTG
81421	TCACACACCT	GTAATCCTAG	CTACTCGGGA	GGCTGAGACA	GGAGAATCAC	TTGAACCCAG
81481	GAGGCAGAGG	TTGCAGTGAG	TTAAGATGAC	GCCACTGCAC	TCCATCTGGG	CGACAGAGCC
81541	AGACTCTCTC	TCAAAAAACT	AAATAAATAA	AAATAAAGTT	ATGGTACATT	GAACCTCTGT
81601	GTTCCTTTCT	CCCTTAGATA	CTTTCATGGC	TACCCATTTA	ATTGATGTTT	TTATCATCTC
81661	CAAGAGTTAG	TCAGGAGAGG	AATCAACCCA	AGCAAAAATA	GCTGATTTTC	TAATTTTCTC
81721	TCAATGCCCT	TTGGGGTCTT	AATCCATTTG	ATTTATGTAC	TTTCAATTAA	TCCTAACCTC
81781	GAATGTCTTC	TGCAAAACATG	TTTCCACAGA	TGAAACTCGT	CAAAATGAAAC	ACATTCCTTT
81841	AATTTATAGA	GTTAAAAATT	AGAAAAATTT	TCAATTCTAT	TTGGCCTTTA	GATTCAGTCT
81901	TGCATATGTT	TTCTCAATTT	TGTTCTATGT	CTTTAGTTTT	GTTTTATTCC	ATCACAATTG
81961	TTACATAGTC	TTACTGGCTT	AGGTCATAAT	AACCATTCTA	TTGGAAATTA	AAATTGGCCA
82021	TTTTAAGATG	AAAAAGATTG	TTGCCTCAAT	TTTACTTAGT	TTTTGAAACT	GTCAATGAGG
82081	ACACATGTTT	TTCTGTACTC	TTAGATTAC	TAAGTAGTGT	CTTGCAAATT	TAACGTACAA
82141	AGGACAGATT	AACATGCGAA	AAAAAGAGCA	TGCAATTTTA	TTAGTATATT	ACATGCACAG
82201	AGTTCCCAAA	GAAAAAATAA	TTGAAACCTT	AAAAACGCGG	TTAGACTCAC	AGACTTATAC
82261	ACCATTCCAA	CAAAGGAAAG	GGAGTTTGCA	CTTCATGGGA	TGACGAATTT	GGGAATGTGA
82321	CAAGGAAATA	AATACATGGG	CAATAAAAC	CATGGAAGAT	AAAATGAAAG	ATAGAAATAA
82381	TTGTAGTAAG	GTTTGTTTTT	GCAGAGTCAT	CTCAGTGCCA	ACCTTCCATA	TCTAGTGATA
82441	AGAATTGCTC	TCTTTTCTCT	GGTATAGCAG	TTGGGGACAC	TTTTTACAAG	GAAATTTCTG
82501	TCACCTTCAC	AAAGGGAAAT	TTGGGTAAAG	AGAAGACAGA	GACCTCTTCC	TACACCTGTT
82561	GATTTTCAAT	TGCCTTCAGC	TGAAAATAAC	TTTTATGCCA	AAGTAGAATA	ATTTGGGGGT
82621	GACATCCTGA	TATCTTCAA	AACTTATATT	TAATTTTACA	TTAGTAATTA	TATCATTTTT
82681	GATTTTAAA	TTAGTTTAT	AAAATAATTT	TGAAAAACGG	TAATAATATT	CAAATAATTC
82741	CAGAAACACT	GCTGATAAGC	CAAAAACATC	AATGAATATT	GCATAAACAA	CTGATAATTC
82801	AACCATGAAA	ATTTATGACA	TTGTTCTTGT	GTGATAAAAC	TATGAGTAA	ATAAAAACTA
82861	GAGGCTACTT	GTAATGCATT	ATTCCAACT	TTCTGTTTTT	TATTTATTTA	TTTATTATT
82921	TTGAGACATA	GTCTCTCTCT	GTCACCCAGG	TTGGAGTGCA	ATGGCGTGAT	CTTGGTTTAC
82981	TGCAGCCTCC	ACTTCCCCGG	TTCAAGCAAT	TCTCTGCCT	CAGCCTCCTG	AGTAACTGGG
83041	ATTACAGGCA	CCTGACACCA	AACCCGGCTA	ATTTTTTTGT	ATTTTTTAGTA	GAGACGGGGT
83101	TTCCGCCATG	TTGCCAGGCT	AGTCTCGAAC	TCCTGACCTC	AGTGATCCAC	CTACCTCGGC
83161	CTCCCAAAGT	GCTAGGATTA	CAGGCGTGAG	CCACCATGCC	CGGCGCATTA	TTCCAACTT
83221	TCATACACAG	TGCTATCATG	GCTACAAATT	GAAGTATCAT	ATTATACACT	CCTAGGCAAA
83281	GCTCTGGATA	TTTTGGCTAT	ATAAGCCTGA	GGGAAATGTA	GTAAGGACAT	TGTGGTTGAA
83341	ATTCATACCA	GAGATGAACA	GGCCCAGTGC	AAGACAGAAT	TACATCACTA	AAGGATATCA
83401	GAAGAGAATA	GGGATTTAGG	GTACAGTGCG	AACAACAGTT	TTGGGAACTA	GCATTTTTTG
83461	AGCACTTATT	TACAATATGC	CAAGCACTGT	TGCTGATTAC	TCTATATTTA	TTTTCAAACA
83521	CATTCTTGTC	ACAGCACTTT	GAAGTAAAGT	CCATTGTCTA	TCCCACTTCA	GGGTGAAGGA
83581	CTAAAGCTTG	GTGTCATTAA	GGATGTAGCT	AGTTAGCTGT	GTGTGTGTGT	GTGTGTGTGT
83641	GTGCATTTTT	TTTTAAATTT	AAAGTCAATA	AATTTTTATT	TGAAGAATTT	CACATCAAGG
83701	TAAACTTTGT	TCCTCTAAAG	AGCTGGAGTC	AAAATGTATC	TTCAAAAGAT	TCATCTTCAA
83761	GTTAGCCCTT	CTTAATAGAA	CTGATGCTTA	ATCCACAGTT	GTCAGCCAC	AGTTCCTTTA
83821	TTTTGACTTT	TTTTTTTTTT	TTTTTTTGAG	ACGGAGTCTC	TCACTGTCAC	CCAGGCTGCT
83881	GGGCGAGTGG	GTGATCTCGG	CTCGCTGCAA	CCTCTGCCTC	CCGGGTTCAA	GTGATTCTCC
83941	TGCCTCAGCC	TCCTTAGTAG	CTGGGACCAC	AGGCGCATGC	CATCGTGCTC	GGCTAATTTT
84001	TGTATTTTTA	TTAGAGACAG	GGTTTCACTA	TGTTGGCCAG	GCTGATCTCA	AACTCCTGAC
84061	CTCATGATCC	GCCTGCCTTG	GCCTCTCAA	GTGCTGGGAT	TACAGGTGTG	AGCCACTGCA
84121	CCGGCCCTTA	TTTTGCCTTC	TTTAATCTCC	ATTTGAACAT	ACACATACTG	ATGAAAACCTA
84181	CAACATTCTT	CACCAAAAAAT	CTTTGGGATT	TAATTTCTTC	AACCACTTTA	CTTTGGGGTC

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84241	ATTTTAAGAT	TAGGTGTATC	TGCCTGGTTC	TCAATTTGAC	ACCCTTTCTC	TCTAAACATG
84301	AATGAGTTCC	AATCATATTT	ATTCTAAGC	TATCACACTC	AAATATACTA	CAGATCTGTG
84361	GAATATGCCA	AAAGTTAAGG	TGAAAAATTA	AATTATTAGG	TATTCATAG	TTTTGCTAGT
84421	TTTTGATCTG	TGAGTGAATA	TAACATATCCT	CTATGTCCTG	GCACTGTTCC	TCAGAAACAT
84481	AGGGTCCACA	TATGTAATTT	TAAATTTTTT	AATAGGCACA	TTTTAAAAAG	TGAAAAAAGA
84541	AATCTATTTT	AATGATTTGA	ATCCAGTGTA	ACCAAAAAAT	GTTTCAACAA	GGTATCTAAT
84601	ATTAAAAATAT	TGAGTTTTTA	CTTTGTTATT	TTACTAGTTC	TTTGAAATCT	GGTGTGTATT
84661	TTACACTTAA	AGCACATCAC	AGTTTGGAGT	AGCCACATTT	CCAATGCTTA	ATACTCACAT
84721	ATGGTTAGTG	GCAACTATCT	TGGACAGGAC	AGCTTTTATA	CTCTGGGAAG	ACACAAGCAA
84781	ATACTTGCTC	TGCAGCAGAA	TCCAGATGTT	TTCCAAGAAA	ACACTTTTTC	TGACCTGTTT
84841	CTGAAACCCA	GGTAGTGTCT	CTAATACTTT	ATATTTTATT	GGTTGTCCT	ATTGTAACCA
84901	CCCAACGGGC	TCTCCTTGTC	CACTTCCTAG	ACAGAGCTGA	TTTATCAAGA	CAGGGGAATT
84961	GCAATAAGGA	GCCAGCGCTA	CAGGAGACTA	GAGTTTTATT	ATTACTCAAA	TCAGTCTCCT
85021	TGAGAATTTG	GGGACCAAAG	TTTTTAAGGA	TAATTTGATT	GTAGGGGACC	AGTGAGTCGG
85081	GAGTGCTGCT	TGGTTGGGTC	AGAGATGAAA	TTATAGGGAG	CCTAAGCTGT	CCTCTTGTC
85141	TAAATCAGTT	CCTGGGAGTG	GTGGGGTGGG	GGACTCAAGA	CCAGATAATC	CAGTTTATCT
85201	ATATGGGTGG	TGCCAGCTAA	TCCATTGTGT	TCAGGGTCTG	CAAAATAGCT	CAAGCATTGA
85261	TCTTAGGTTT	TAAAAATAGT	ATTTTATCCC	CAGGAGCAAT	TTGAGGTTTA	GAATCTTGTA
85321	GCTTCCAGCT	GCATGACTCC	TAAACCATAA	TTTATAATCT	TGTGGCTAAT	TTGTTAGTCC
85381	TGCAAAAGCA	GTCTGGTCCC	CAGGCAGGAA	AGGGGTTTGT	TTCTGAAAGG	GCTGTTATTG
85441	TTTTTGTTTA	AAAGCAAAAG	TATAAACTAA	GCTCCTCCCA	AAGTTAGTTA	ATCCCAAACCT
85501	CAGGAATGAA	AAGGACAGCT	TGGAGTTTAG	ACGTTAGATG	GAGTCGGTTA	GGTAAGATCT
85561	CTTTCACGTG	AATAATTTTC	TCAGTTATGA	TTTTTGCAAA	GGCAGTTTCA	CTGTCCACTT
85621	CACCTCACAT	CAGGCCTCTG	ACTAGAGGAT	TCCAACAATA	CTTAGGCCAG	GACACCACCA
85681	TGTCTCCTTA	TCCACCCTGA	GGGAGTCCAA	TTTCTGAAAC	AAAGGAAACT	ATATATGATA
85741	GTATGAAACT	ATATATGAGA	AGGAAATTAT	ATATGATAAT	CAATTTTAGG	GTTATCTTAT
85801	TGATTAGAAG	ATATTAAAGT	GTGACACTGC	CTGGCAATGA	TATCTGCTGG	TAGTAAGAAT
85861	TTGGCGAATT	TAGTGAAATT	CCTGAGGCTG	AACCTCCACT	TCTGTAAAT	GGAGACAGTG
85921	AGATAATTTG	CCTTACAATG	CTGAAGTAAG	AATTTTACAC	AATAATTCAG	ACCAACCACT
85981	TCATGTGGTA	CTTGGCCCGT	GGAAGACTAT	CAATGACAGT	TAGTTTATAG	TTTATACTAT
86041	TAATGAATCC	TTTGTTTCAT	TGTTATTTCC	TTCTACACGT	TGGCCTCTCT	AAAAGAAGGT
86101	AATATTCAT	ACAAATAAAG	TTAAACAGC	TTGCAGAGTT	GTCCCAGGGA	ACTCACTTAA
86161	CCACTGAAGT	GTTCAAATTG	CTTAAGGTTG	ACTTTATATT	CTCCTGACTA	ACCTTTCTCC
86221	TTCTGGTATT	TCTTCTGAGA	ACAGCACCAC	CATCCAAAGC	ATCATGCAAA	CAGTGGTCAT
86281	CCCAGACCAG	TAATTCTCAA	CTCACAGGGT	GCTCCTGCAG	AGATGTATTT	GAATAGAGTG
86341	GTAGGATGCT	GAAGAAGGCC	ACGTAAAATT	TGGCCAGTGA	TCTGGGGCAG	ATTTATCCTG
86401	AAGCTAATGA	AACACAAGTG	TAAGGGCCTG	TACTTCCAAG	GTGCAGAGAG	GGGCCCTACA
86461	AATGTGTTAG	TTTGTCTCTC	TCTCTCTCTC	TGATTTTAAA	ATTTGCAGTA	TTAAGGTACT
86521	TTAATCACGG	ATGGTTCAGG	CTGCTATTTT	CACTCAATCC	TCCTTTTTAT	TAAAAATCACC
86581	ATTGTCTGAT	TATGTTAGAA	TCCTGATGAA	AATATTTGGA	ATTTGAGTAA	GAGAAAGTTT
86641	AGTTGAAGAT	GTATCTAGTA	TGGGGATAAT	AAGTTACGTG	ATTTGCATAT	GTGATCATGT
86701	GTAATTCATT	CGTTGCCAGC	CAATCTGACG	TAAGAATGGC	TTCAAGGAGG	CCGGGCGCGG
86761	TGGCTCACGC	CTGTAATCCT	AGCACTTTGG	GAGGCCGAGA	CGGGCGGATC	ACGAGGTCAG
86821	GAGATCGAGA	CCATCTTGGC	TAACACGGTG	AAACCCCGTT	TCTACTAAAA	ATACAAAAAA
86881	TTAGCCGGGC	GTGTTGGCGG	GCGCCTGTAG	TCCCAGCTAC	TTGGGAGGCT	GAGGCAGGAG
86941	AATGGCATGA	ACCTGGGAGG	CGGAGCTTGC	AGTGAGCCGA	GATTGCGCCA	CTGCACTCCA
87001	ACCTGGGAGA	CACAGCGAGA	CTCCGTCTCA	AAAAAATAAA	AAAAAGAATG	GCTTCAAGGA
87061	ATGTTCTTAC	TGCTCACTGG	AATAACTCAC	CTAAATTCCT	GGCAAGATGC	AGGTCTAGAT
87121	AAAATGTTAT	GACATCTAAG	TATTCAAAAC	ACATTTCCAG	CACTGAGAGT	GAGTGTCTAG
87181	TGGAGAGTAG	AAACGTATAG	AGCCAGAAGC	TAGTCTGGAA	AGAATTCTTA	CAGAGTTTAC
87241	AACTTACATG	TGAAAGGAGC	TTAACAGAGG	ATTTTCCAAA	TTTGAAAACA	ATCCTAAAAA
87301	CTTACTTGAC	ATTACCAATA	ATGTGTTTTG	AAACTGAAAT	ACTTCTAAGT	TATGAAGAAA
87361	ACATATTATC	ATCAGCCACC	CTGGAGGAAA	GATTGAATTC	TATTTCCATT	ACCTATAGAC
87421	AACATTACAA	AATAATTTTC	ATCTGAAGAT	GGAATCAGAG	TATTCAGTCA	AAACTACAGG

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87481	AAAATATACT	TGGTAGTGTC	ATATTCAGAA	GTTAATAAAA	TATGCTATTT	TCTGAATTTT
87541	GTGATGGCTG	TTGTTTTGTC	AGCTTTTATA	AAATTGGAAT	TTGATTTTAT	TTTCCCATTA
87601	TAAATTTATA	TTTACAGTCT	GCAGTACTTT	TGCATTTTTA	ATTTTACATT	ATAGTTTTTA
87661	ATAGTTAACA	AGTTGTAAAA	GGTTTGATCC	CCAGAAAACC	TTGATCTACC	CCATCAGTTA
87721	AGTATACTAA	TATATTTAGA	AAATGGATGA	AATCAGCATT	TGAATATTTT	TAAATATTTA
87781	TTAAAAGAGG	ACATGGGTAA	AAGAGCTTTG	CAGTTGCCAC	CCTTCATTCT	CAAATCCCT
87841	GGATAAGGAT	GACCGCATAA	TCTTTGGATG	GTCATACGCA	AGTCTTGTGT	ACTTGTTACA
87901	TAAATCTATT	TAGTGGACTT	TTGGCAGTGT	GTACTGAGGC	CAGTTTCTTC	CACCTGAGCT
87961	CTGACTCCAC	CTCCAGCAGC	CCAAAACCAA	TACTGAATTT	TGGGGTCAGC	TATTGTTTTT
88021	GTGGACTTAG	GTAACCTACAC	ACACATTGTC	TTTATGATAG	CTTTAATAAT	ACTGCCATCA
88081	GAACATAAAT	TGTCACGTGG	ATTAAGAGGA	GTGACGGTGG	TGTCCCCAGG	AGCCTTTCAA
88141	TATGTAAGTA	TTTACACATA	TACATGCTAA	AAAGACCCCT	AGGAATTTTT	TAACAAGGGC
88201	AAAACAGTAA	CTCAGCTTGT	TTTCTCGCAG	TAAAACCGGT	TGAAAAGGCC	TGATAGACTT
88261	GTCTGCAGTT	ACAAAACCTG	TGTGTAGTTA	TCACCTTTAT	ATCTCCTGGA	AACTAACATA
88321	GACAAACGAA	TGGGTACAA	CTGTTTTTAA	GTGAAATTGT	GAGTGGCTCT	GAAAAGAGCC
88381	TTTTCAATGA	GGAAGAAACG	GCGAGACTTA	TGCCCTTCC	CCACGGATGC	GACGTGCCAG
88441	CTGGATATCT	TTGGGCATGA	TGGTGACGCG	TTTAGCGTGA	ATAGCGCACA	TATGGTGTC
88501	TTCGAAGAGT	CCCACCAGGT	AGGCCTCACA	AGCCTCCTGC	AGCGCCATCA	CCGCAGAGCT
88561	CTGGAACGCG	AGGTCGGTTT	TGAAGTCCTG	GGCGATTCT	CGCACCAGGC	GCTGGAACGG
88621	CAGCTTCCGG	ATCAGCAGCT	CGGTGGACTT	CTGGTAGCGA	CGGATTTTCG	GCAAGGCCAC
88681	GGTGCCCGGG	CGGTAGCGAT	GAGGTTTCTT	CACGCCACCG	GTGGCCGGAG	CGCTCTTACG
88741	GGCTGCTTTA	GTAGCAAGCT	GCTTGCGCGG	AGCTTTGCCG	CCGGTAGACT	TGCGAGCTGT
88801	TTGCTTCGTA	CGAGCCATTT	GCAATGAGAG	CACACACAAA	AGTGTAGTGA	ACTGAGAGCA
88861	AGTGGCCTTT	AAATATAGTG	AGAAACATTC	TGATTGGTCC	TGTAATATTT	CAAAGTCCC
88921	GCGCGATAAA	ATCATTGGCT	GAAGAGTGAC	CAGACTGATT	GGTTCATTAC	TAGACAATCT
88981	TATTGGATGA	GTTGCCCCAC	CGCCCATCCT	GTCCTTTTCG	TTTCAGTTAT	CTGCAGCGAC
89041	AAATGTCTA	AAATTCTAGT	TCATCCAGTC	CCAAAGAACA	GAGTGTATAA	CAAGGTATCT
89101	AAGGATTTT	AAAATGTAAA	TTCCGATTCA	GTAAGTTTGA	GTGGGACTTG	AAATTCTGCA
89161	TTCCTGACAT	TCTCGCAAGT	TATCAATGCT	GGTGAACACT	CACTAAACCA	CCAGAAACGT
89221	TCAGACTCAT	GTCGGGAAAT	AACGCTTATA	TTCAGAGAAT	GAGATTCCAT	GCTATTTTGT
89281	TACTGGCGAA	CAGCAAGTTT	CCTTGCCCTT	TGTTTTCTAA	GTCCAAGTCA	CATTCCCACC
89341	CTGCCTGTTC	TCAAAATGTC	TTATTTTGGT	TGGCCTTAAG	TTTCACTTTG	TATACTCTAA
89401	AATGTACTTT	CTAAAGGAAG	GTGTTATTTT	CTCGAAACTT	AACTTTTTTA	CACCATTAGG
89461	CTAGGGGGGC	GGTGGCTCAC	GCCTGTAATC	CCAGCATTTT	GGGAGGGCGA	GATGGGACGA
89521	TACTAGAGG	CCAGGAGTTC	AAGACAACCC	TGGCTAAAAT	GGTGAAACCC	CGTCTCGCAT
89581	AAAAATACAA	AAACTAGCTG	GGCGCGGTAG	CAGACGCCTG	TAATCCCAAG	TACACAGGAG
89641	GCTGAGGCAT	GAGAACC CGG	TGAAGCGGCG	GGGTGGAGGT	TGCAGTAAGC	CGATATCGCG
89701	CCGCTGCACT	CCAGCCTGGG	TGACAGAACT	AGACTGTCTC	AAAACAAACC	AATCCAAACG
89761	AAAAGCAAAA	AATACCCTAA	CAGAAGCAAG	TTATCATCCT	TTCTTGTGTA	ACTATGGACG
89821	GCTCTGAAAA	ATGCCGTTTC	AAGTGTAAGC	TACGTTTTCT	GATTTGAGTG	TTTACTTGAC
89881	CTTGCCCTTA	TCGTGGCTCT	GTTATTTTGG	CAACAGGACG	GCCTGAATAT	TGGACAGGAC
89941	GCCTCCCTGA	GCAATAGTGA	CGTTGCCCGG	CTGCTTGTG	ACCTCCTCGT	CGTTTCGGAT
90001	GGCCAGCTGC	AGGTGGCGGG	GGATGATGCT	GCGGGTCTTG	TCACGTATGG	CGTGCCAC
90061	CAGTTCTAAG	ATCTCGGCGG	CCAGGTATTG	TAAGTACACT	GGCGCACCGG	CTCCGACCGG
90121	CTCAAAATAA	TTGCCCTTTC	GAAAAAGATG	ACGGACTCTG	CCCTATTGGG	AACTGCAAGC
90181	CCGGTAGCGA	CGAACAAGTT	TTTGCTTTAG	CTCCATTTTC	CACGTCCGCA	AATAGCGACC
90241	TATGAAAGCA	GCGGAAAAC	GTGAAAGACA	AGCAAGCTGG	AATGGCGCCT	GAACAAATCC
90301	TTTTATACAA	ACTGCAAGGC	TGCAATAGGA	AGCTATCCTA	TTGGTCAATT	ATGTTTGGTG
90361	CTTTATCCAA	TAGAAAAAGA	TAACATAAAT	TCCATATTTG	CATAAACCCC	ACCCCTCAGT
90421	GAAACCGTGT	TTCTTTTGTC	CAATCAGAAG	TGAGGAATCT	TAAACCGTCA	TTTGAATCTC
90481	AGGACTATAA	ATACATGGGC	TCTGAACTGT	TCTCTGTACT	ACTCTGTAGT	GGAGAGTGTT
90541	AGTAGCTTTT	CTATTCTGTT	TAGGAATAGC	AATGCCTGAA	CCCTCTAAGT	CTGCTCCAGC
90601	CCCTAAAAAG	GGTTCTAAGA	AGGCTATCAC	TAAGGCGCAG	AAGAAGGATG	GTAAGAAGCG
90661	TAAGCGCAGC	CGCAAGGAGA	GCTATTCTAT	CTATGTGTAC	AAGGTTCTGA	AGCAGGTCCA

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90721	CCCCGACACC	GGCATCTCAT	CCAAGGCCAT	GGGGATCATG	AATTCCTTCG	TCAACGACAT
90781	CTTCGAGCGC	ATCGCGGGCG	AGGCTTCTCG	CCTGGCTCAC	TACAATAAGC	GCTCGACCAT
90841	CACCTCCAGG	GAGATTCAGA	CGGCTGTGCG	CCTGCTGCTG	CCTGGGGAGC	TGGCTAAGCA
90901	TGCTGTGTCC	GAGGGCACTA	AGGCAGTTAC	CAAGTACACT	AGCTCTAAAT	AAGTGCTTAT
90961	GTAAGCACTT	CCAAACCCAA	AGGCTCTTTT	CAGAGCCACC	TACTTTGTCA	CAAGGAGAGC
91021	TATAACCACA	ATTTCTTAAG	GTGGTGCTGC	TGCTATTCTG	TTTCAGTTCT	AGAGGATCAA
91081	CTGGAATGTT	AGCGAAGACA	AGTTTTAGAG	CCAAGGTTAA	CTTGGACGGG	GCCGTGCGCG
91141	GTGCCTCTTG	CCTTTAATCC	CGGCAATTTG	GGAGGCCGAG	GCGGGCGGAT	CACGAGGTCA
91201	GGAGATGGAG	ACCATCCTGC	TTAACACGAT	GAAACCCCGT	CTCTACTAAA	AATACAAAAT
91261	AATTAGCTGG	GCGTGATGGT	GGGCGCCTGT	AGTCCCAGCT	ACTCGGGAGG	CTGAGGCAGG
91321	AGAATGGCGT	GAACGCGGGA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCGC	CATGGCACTC
91381	CAGCCTGGGT	GACAGAGCGA	GACTCCGTCT	CAAAAAAAAA	AAAAAAAAAA	AATTAAAAAA
91441	ATATGAAGTT	TTGAAGCAGA	AATTATTTTG	TCGTATGTTT	TTTCATAAAT	TTTTTGCCTG
91501	CCTGCCTTCT	TCCTTTGTTA	CAGAACTCCA	ACACTTACCC	AAAGGTAGCT	GTTGGGTCAG
91561	GGTTTCTGTA	CTATAGTCCC	TTCTGTGGTG	GCCAGAAATA	TGTTACAGGA	AAGAGGTCCC
91621	CATCCAGACC	CCAAGAGAGG	GTTCTTGGAT	CCCGCGCAAG	AAAGAGTTCA	GGGTGAGTCC
91681	GCAGTGCAAA	GTAAATGCAA	GTTTACTAAG	AAAGTAAAGT	GGTGAAACGA	CAACTACTCC
91741	ATAGACGGAG	CAGGACATTC	CCGAAAGTAA	GAGGAGGAAG	GCATCCACCC	TAGGTACAAT
91801	ACTTGTATAT	ATGGGGAGAT	GTGCTCTGCT	ACAAGTTTGT	GATAAAGGAT	TAATTTTCTT
91861	AGTTACTATA	TTTTGCAAGA	ATCAACATTA	TTATCTTTAA	ACAAAATTAA	GAATGCCTTT
91921	GTTCTCCAGA	TATAGGGATA	TCTGGACACT	CCTAAGTCTG	AGTCTGTTTA	GTAAACATTA
91981	TTTATTTGTT	CCCTTAACCG	TAAACATCTA	GAAGCTAGGA	ATGACTGACT	TTCTGGGAAT
92041	GCAGCCCAGA	AAGTCTCAGC	CTCATTITTC	TAGCCCTCAC	TCAAAATGGA	GTTACTCTGG
92101	TTCAAGTAAC	TCTGACACTT	TTCTTCTCTT	TTTTTCTTCT	TTTTTCCTTC	CTTTATTTTT
92161	TATTTTTTAT	TTTTGAAATA	AGAAATCAAG	AATACTTGAT	GTTTCATCTA	AAACAATACC
92221	CATAATTGAT	AAGCCAAAAC	AAAAACCTAG	GTCTTCTAAC	TCAAACTAG	GATGTTTTGC
92281	TGTCCTGCT	GATACTCGGC	TGATCGTTAA	TAGGTAATTA	ACAAACAAGC	CTTGCTATGT
92341	CCCCCTCAGT	TTATTACCAT	TAGATCATAT	GCCTACTGTC	AATCATATTA	ATCCACAAC
92401	ATGCATTTCA	CAAAACTTGC	CATAAAAATT	CACAGGTTTC	CCGCTTCCCT	CGAGTTTTCA
92461	TTTCCGAAGG	GTCCCATGTA	ATATAAACT	TATATTAAAT	ACATTTGTAT	GCTTTTCTCT
92521	TGCTAATCTT	TTTTTTTTGTT	TTTTGAGACT	GAGCCTTGCT	CTGTCACCCA	GGCTGGAGTG
92581	CAATGGCGCG	ATCTCGGCTC	ACTGCAACCT	CCGCTTCCCA	GGTTCAGCG	ATTCTACTGC
92641	CTCGCCCTCC	CGAGTAGCTG	GGACCACAGA	TACGTGCCAC	CATGCCCCGC	TAATTTTTGT
92701	ATTTTATAGTA	GAGACAGGGT	TTCAACGTGT	TGGCCAGGAT	GTTCTCAATC	TCCTTACCTC
92761	GTGATCCGCC	CGCCTCGTCC	TGCCAAAGTG	CTCGGATTAC	AGACGTGAGC	CACTGCACCC
92821	GACCAATCTG	TCTTTTTGTA	GAGGGGCCTC	AAGCATGAAC	TTACTGATGG	GTGAGAAAAA
92881	CAGAATTTTC	TTTTCCCCTA	CAATATAAAC	ATTAATTGTA	ATGTTATCAT	TCAGGACATT
92941	TTGGTGACCA	ATCTTACAGA	AATTTTATCT	TGTGCAAGTC	TATGCAAACC	AATATGTAAA
93001	TCTTCTATAA	GTGAGATTGT	ATTTCACTTT	TCTAGTATCC	TTTTAAATTA	ATAAAAGAGA
93061	TTCTAATGAT	TATTTTCATT	ACTGCATTTT	ATTGTAGGGA	AGTAGATAAT	TGCCCTTTAT
93121	TCACTGACCT	TCGCTTTTTA	AAAATTTAAA	CCATGTTACC	ATGAAAATGC	TTTTCAGTAT
93181	TTCTCTACAC	ACAAGATTGC	TGTAAGGGCA	AAAATAGAGA	TAGGAATCAT	GCATCCATTG
93241	ATATACATAT	TTTGATTTTT	AATACATGTT	ACCAAGTTGC	CTCCTGAAGG	TCTGTTTACA
93301	CTCTCACCAA	CAGGGTGTTT	TTTCCTGACT	TCCACAAATG	CTCTGAACA	GTGGGTGTGT
93361	TAGTCTGTTT	AAATTGCCGA	CATGAACAAT	TAAATCTCAT	TGTTGTTTTT	ATTTTTAAGA
93421	CAATTATTGT	TTGAGACTGC	ACATTTTGAT	AATAACATTT	CTTCTATTAT	GGTTTGATTA
93481	CTCATGATTC	TTGCCCATTT	TCTTTTGGGA	TGTTGCCTTA	TGTACATTAT	TTTAAATAGA
93541	TAGCTCCATG	TATTAAAAGA	TTATTAAAGT	TGAGGGCTTA	TGATATGTCA	GTTACATTTT
93601	TAAGATTTTT	TTTTTTTTTT	TTTTTGAGAC	GGAGTTTCAC	ACTTGTTGCC	CAGGCTGGAG
93661	TGCAATGGTG	CGATCTCGGC	TCACCGCAAC	CTCCGCCTCC	AGGGTTCAAG	CAATTCCTCT
93721	GCCTCAGCCT	CCCCAGTAAT	TGGGACTACT	GGCAAGCGCC	ACCACGCCTG	GCTAATTTTTG
93781	TATTTTTTATT	AGAGATGAGG	TTTCTCCATG	TTGGTCAGAC	TGGTCTCGAA	CTGCCGACCT
93841	CAGGTGATCC	ACCCGCCTCG	GCCTCCCAA	GTGCTGGGAT	TACAGGTATG	AGCCACTGGG
93901	CCCGGCCACA	TTTCTAAATT	CTTTATAAGT	ATAAATTCAT	TCAATCTTCA	CCAAAACCTCA

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93961	ATGAAGTGTG	AGTACTATTA	TTATCATTGT	TTTACAGATC	AAAACAAGTA	ATACAGTCAC
94021	TTACTGAGTT	CTATACACCT	GGTAATTTTT	TTGTTTCGTT	GTTCTATCAA	TTATTGGGGA
94081	AGGGGTGTTG	AAATCTCTAC	CTTTAAATCA	TGTATGTGTC	TATTTCTCCT	TTCGGTTCTA
94141	TCAGGTTTTG	CTACACATAT	TTTGCAGTTC	TGTTATTTGG	TGCATATACA	TTTAGAATTG
94201	CTTGTTTTTC	GTATTGGATT	GACCCTGTTA	TCATTATGTA	ATATCCCTGT	CTGTTCCCTAG
94261	TAATTTTCTT	TGCTCTGAAA	TATACTTATC	TGATATATCA	TCCAAAAGAC	CACCAAGGATG
94321	GCTAAAGAGT	AGAAAGGAGA	GATTTACTGG	CAATACTAAT	TTGCAAGCCA	GGAAGAGATG
94381	GTCCCAAGAC	CTGCCAAAAT	TACTCTCTCT	TTGGGGAGAA	GGAGCAGGTT	GGTTATTTTT
94441	ATGCCTCATA	GGCTATATAT	TACACAATAG	AGTCATACAT	ATTTAGCACG	TTTGGGGGGA
94501	CAGCTATATA	TATTATGAGG	GGTGCCAAGT	GCATTACAAA	TGGATAAACA	CGTGTAATAT
94561	ACCTCCCATG	TTCAC TTCGA	GGTTAAATTT	TGGTTAAAAT	GAGGTAGAA	TTAGGTCTTT
94621	ACATCACAAG	GTGAACTATA	GGAACAAAAGT	TTACGTGCTG	CCTCTAGCAG	CTGGCTGAAA
94681	ATGGCTTAAG	GTCTACAATT	ACGTGTAAGA	ATAGAATGTG	TGTCAAGGCG	GTCTCTGTCT
94741	CAATCAGAGT	TGTAGTGGAC	TGGACTGTAA	ATCAGAGTTA	GGAGGGCTTC	TGATAGCTCC
94801	TATAGTTAAG	GAATTTAGCA	AGTGTGAGTT	TTTTGGTAGT	CTTTGGAATT	TAGGAATTTG
94861	CCATGCCAGC	CAAGCCATGA	ATGCTCTACC	AGTAGGTAAC	TTTGTGTTGCT	TAATCTTAGA
94921	GTCTGTCTTA	GTTGGTATAG	TGGCATCTAT	TTTGGTCTTT	CAGATCCAG	ATATTATTAA
94981	TACAGATACT	CTTGCAGTTT	TGGGCTGATG	TTTATATGGC	TTATCTTTTT	TGCAGCCTTT
95041	AATTTCAACC	TGCGTTATGT	TTATATTTGA	AGTGAGATTC	TTGCAGAGTG	TTGCAGTTTG
95101	TTGTTTTTTT	TTTTTTGAGA	TGGAATTTCA	CTCTTGTTGT	CCAGGCTGGG	GTGCAGTGGC
95161	ACAGTCTCAG	CTCACTGCAA	CCTCCGCCTC	CTGGGTTCAC	GGGATTCTCC	TGCCTCAGCC
95221	TCTTGAGCAG	CTGGGATTGC	AGCCATGCGC	CACCACACCC	GGCTAATTTT	TGTATTTTTA
95281	GTAGAGACAG	GATTCACCAT	GTTGCCCAGG	CTGGTCTCGA	ACTCCTGACC	TCAAGTGATC
95341	CGCCAGCCTC	GGCCTACCAA	AGTGCTGGGA	TTACAGGTGT	GAGACCTCGC	GCCCAGCCAA
95401	ACTGTTTTTT	TATGGGTGTA	TTTATACCAC	ACACATTTAA	TGCAATTATT	GATATCTTAG
95461	GGCTTAAGTT	CATGAAGGGT	AGTGTGGGAA	CCATAGTCTC	TTGGCCCACT	AAATGTTTGC
95521	CAGAAATCAC	TGACAAGGCA	GATTGATTAA	TAGGTGAAAA	GGCATTTTAC	CTATTGTTTA
95581	ACGTGTCTAT	GTGGGAGCAT	TCAGAAATTA	TTACCTAACT	TCCCAATGAG	TTATAGATGC
95641	TTATATACCA	TTTTTAGATC	ACAGAAAGAA	TTGGGGCTTA	GATTCTGGTA	AAACAGGTTA
95701	TGGGAGGCAA	AAGAGGTTTG	GCTTGCAAAG	GTGGCCTTGT	TAGGTAGGTG	AAGCCTCCCT
95761	CAGAAAGAAC	AGATGGTAAA	TGTTCTTTT	ATGATTTTTA	AGTGTGAGAC	TCTCAGTCTC
95821	TCCTGGATCT	GGGGAAAGGT	ATAGAAAGGT	GAGGAGGCAT	GGCTGCATTA	ATGGAGATTC
95881	TCTACAGATG	TAAAATTTTT	CCCATTTAAG	GCAGCTTTGC	AAGCCCATTT	TGCTGCTGCTG
95941	GCCAAGCAGC	AGCCATTTCA	AAATATGTCA	AAGAAATATA	TTTTGGGGTA	AAATATTTTG
96001	ATTTCCTTTA	GACTGGTGCC	CTTATAAGAA	AAGGAAGAGA	CACCTGAGCT	GACACACATA
96061	CCCTTGCTCT	CTCAACATGT	TATGATGCAG	TAAGAAGGCC	CTCACCAGAT	ACTAATTCCA
96121	TGCCCTTAGC	TTCCCAGGTT	CTAGAACAGT	AGGAAATAAA	TTTCTTTTCT	TTAAAAGTTA
96181	GCCAGTCTGT	GGTATTCTGT	TATAGTATCA	CAAAATGGAC	TAAGTAACTA	TATTATGATC
96241	ATCTTACATG	ACTGATCCCT	CCTACATCAT	ACACATACAC	AGGCCACATT	TGGAACATTG
96301	TTAGAGGTTT	CTCTGCCCAG	TACAAATGTA	CTACAAATTA	TATATGTATT	TTTAAATTTT
96361	TGAGTATCTT	CAATAGTATA	TTTTCGTTAA	CTTTTGTAGT	CAAAATGTCA	TTATAACATG
96421	TATTCAATAT	GCATAATTAT	TAGTCAGATG	TTTTACATTC	TTTCTTCATA	CTAAGTGATA
96481	TGGTTTGGAT	ATTTGTCCCC	TCTAAATCTC	ATGTTGAAAT	GTAATCTCCA	ATGTTGGAAG
96541	TGAAGCCTGG	TGAAAGGTTT	TTGGATCGTG	AGGGTGAACC	CCTCATGAAG	CGCACTCTTC
96601	AGGGTAATCA	ATGGGTCTCT	ACTTTGAGTT	CACAAGAGAT	CTGGTTCTTT	AAAAGAGTGT
96661	GACACCTCCC	CCATCTCTCT	CGCTCAGCTC	TCACCATATG	ATATGCCTAC	TTCTCTTCA
96721	CCTTCCACCA	TGATTGGAAG	TTTCTGAGG	ACTTGCCAGT	AGCAGATGCC	TGCACCACAC
96781	CTCCTGTACA	GCCTGCACAA	CCGTGAGCCA	AAAAAAATTA	CTTTTCTTTA	TAAATTAGTC
96841	AGTTTCAGGG	ATTCCCTTAT	AGTAATGCAA	GAACGAACCTA	ACACACTAAG	TCTATTTTCAT
96901	ATTTACAGAA	TAGCTCAATC	TGAAGTACCC	TTTTTCAACT	TCACAGTAGC	TACTTGTAGC
96961	TAGTGGGCAC	TGATTTGGAG	CGTGTTCAAG	GGTGAATTGT	ATTATGCAAT	TAACAGATTT
97021	TTTTTATTGT	TTTCGCAAA	CACGAGGCAT	AGATTGTCTT	ACTTTCTCTG	CTCCTGGTGT
97081	TGGAGTTGTT	ATTGGGAAAC	AACTTATTTT	CCTCTTATAT	TTATATGGAA	TAAATAACCC
97141	CCAATATTTT	CCTCCCCAAT	ATCTGCCTTT	TGTATGTTTT	TTGAAGGCAA	GTGCCTAGAA

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97201	TTTACTGTTT	TTGAAGCACT	TACTGAAAGG	ATTGCCATCA	AGTTGTTTTG	CTAATAGTAC
97261	ATGCCAGGCG	CTTGTTGGTT	TGCTTAATTC	AAGGTAACCT	GGATGAGAAG	AAGAGTTTTT
97321	CTCATCCATG	GCTCAGTGGA	GTATAGATTA	CTGATATTGT	GACTIONGATG	ACTCCTGCTT
97381	TCTAGTCTGA	GTTTTTGAAG	CTACCCTTAA	TCTTGCTTTC	AATTTTATCT	AGCCCTGTAC
97441	ATATCCAAGG	CTCTTTCCAA	AATGGTCTAC	GATTTGTTTA	GGAAGTTAGA	ATAGCTGTAC
97501	TTTCTGAACC	ACGGTTCCTG	ACATTTTCTG	GACTTCAAAC	ACATCCAGCA	TTTTATCGAA
97561	GTATTTATCC	TTCCTACTTG	GCTGGCTTCT	TCCTTGCCTT	CAGGTCTGAA	TTCAAATGAC
97621	ATTCTCCTGA	TGAAACTTTC	CATCCTTATT	TCTATTCTTT	TTTCTTATCC	CCTTCTTTTA
97681	TTTTTCTCCA	CAGCACTCAT	CACTTATCTC	TACATTTTCA	TTATGTATTT	ACCTTATTGT
97741	GCACCTCCCA	CTACAAGACA	AGTAGCACCG	TAAGGAAACA	GGTTGTCTGC	TTTTTCACTG
97801	CTATGCTCCC	TGCACCTAGA	ACACTCTCTG	GCACTTAGCA	GGTTTTAGT	AAATATATGC
97861	TGAACTAATA	ATGCTGGATA	TACATCTCCC	TCATGAACCT	TCTAAATCCT	TCTAATTTAC
97921	ATTGATCAAT	CTTCTTTTCC	ATGTGCTTTT	GTATGATTTA	TTGCTCAAAA	TCTTTATTTT
97981	ATATGCAGAA	CGTGCACTGC	TATTTAATCT	TCATGTACGT	AAGTCCTCCC	TTCTCTGAGT
98041	ATAATCTCTT	CAGGGCACTA	TCTGAGATAA	CTTTTTAACA	TCTCCATCAT	GAATCTTGTA
98101	CCTTTTCAAA	GAAAATGAGC	CAGTGATTAC	TGATGTTTAC	GGCTATTGTT	GAGGGTGAAG
98161	ATCATTATAA	TTTTGAAAAG	GGAAGTTGAA	TATTGTGAAG	GGAAAGATAA	CACCTAGAGT
98221	AGAAGACTTG	GGAGAAGGCA	AAAAACAAAC	TAAAAATGAG	CACCTTTAGT	CTCCTGACAG
98281	TTTCTCTGAA	TCAAATCCAT	AGTTCTGTGA	CAGCGTTGGC	TTAGAAGCAG	ATTTTTTTTT
98341	TTTTTTTTTT	TGAAATGGAG	TTTCGCTCTT	GCCCAGGCTG	GAGTGCAGTG	GCACCATCTC
98401	GGCTCACTGC	AACCTCTGTC	TCCAGGGTTC	AAGCGATTCT	CCTGCTTCAG	CCTATGGAGT
98461	AGCTGGGATT	ACAGGCTCCC	ACAACCACGC	CCAGCTAATT	TTTTGTATTT	TTAGTGAAGA
98521	CTGGGGTTTT	ACCATGTTGG	CCAGGCTGGT	TACGAACTCC	TGTTCTCAAG	TGATCTGCCC
98581	GCCTTGGCCT	CCCAAAGTGT	TGGGATTACA	GGCATCAGCC	ACCGTGCCCA	GCCAGGAGCA
98641	GATTTTTTTA	CACTCATGTT	TCTTTTCCCT	TCTGTCATCC	TGTTTCAGTA	TAAGCAGACC
98701	ACAGATAGAA	GATGATAGATA	CCTCAGAAAT	TCCTGGAATA	ATTAATCCAC	GTTTATCTGT
98761	ACTCCATCTG	CTCCTATCTC	ATGGAATATA	AAAGGAAAAA	CACCAAGATT	TCCCTAGGCA
98821	ATCTGCTCTG	ATTTTAGGTT	CCTCAACAGG	AGAGCCAGAC	AATGGCTGTA	ATAATATTGT
98881	CCCGGCCAAG	GAAAAACTTC	CCCTTGCCCT	TCCCAAGGTT	TATGGAAAAA	TACTGGCAAA
98941	ACACAGATTA	ACTGGAGAAA	AGGCATATAT	ATTTATTTCA	TCACAATTTT	ACAGGAGATT
99001	TTAGAATTAA	GACTGAAAGA	TACAGGGGAA	ATTGCCCAT	TTTATGCTTA	GGTTCAACAA
99061	GATAAACAGC	TGTATAGGGT	ACGATCTAAT	GCTAACAGAC	TGAGTGGGGA	AGCCCCGCAA
99121	GGCTTGTCTG	TCAAGATTCT	TCTTGACCTC	TCAGTGCAGC	ATTTCTTCCT	TCTGGTTATA
99181	GGACAAGACT	CTCTTTTAGA	ATGGGGGGTC	TTATGACCTA	CAGGCAACAA	AGGTAGGTTA
99241	GAGTAATACT	TTTAGGTTTT	ATGGCTGGTT	CTAGGGAAAA	GGAGTTCTGG	TTTGTATGGC
99301	CTACCTTGAG	GAGGAATTCT	GGTTTCTATG	GCTAGACTTT	GGGGAGAATG	GGACTTACAG
99361	ACAGGAAGGC	AGAAGGTGGT	CAGTGAAACA	CTTTTATAAT	CATAATCCCA	TTTTGAGTAT
99421	TTCTGTGTTA	TGGAATGTTT	GTTCTCTCAT	TTCTTGAAAG	ATTCCAGAGA	CTCCTCATTC
99481	AGTGTTGTGA	AAAAGTTCAG	GAAATGCAAC	TCAAAAATGT	GCCACTTTGT	TACGCTGATT
99541	TCTTTGAACT	GAGGGCACCT	AGGAAACAGT	AAATTCAGG	AAGGGCTTTC	GCTGAACTCT
99601	AATCAAAAAT	TTGAAAATTA	AAAAAAAATT	CAAAAAGGAA	TTTAGTTGTT	AAGATTCACT
99661	TCCCTGGGGA	ATCTCATCAA	CCAGAGAAGA	TTAACTGTAT	CACAGGAGAG	GAGACTGGTG
99721	GTTAACACCA	TCTAAACAGA	CTTTGTCCAC	GCTGTACACT	ATTTCTTGAA	ACACCCATTT
99781	ATTTTTCTCC	AAAATCATAT	ACTCTCCCCC	AAGTTGCCTA	CATCCCCCTT	CTTTCTCCCT
99841	TATGAATCAA	GAGAGCTTAT	AAGCTTCTAC	AGTTCACTGG	GATTTGGGGT	ATTCGCTTTT
99901	CTTCCCTCCC	ACTCCCCCTC	CCCTTTTTTT	GTCTTTGAGA	CACAGTCTTC	TGGCTCTGTC
99961	GCCCACGCTG	GAGTGTGGTG	GCTCTATGTG	AACTCACTGC	AACCTCCTCC	TCTCGGGTTC
100021	AAGCGATCCT	CCCACCTCAG	CTTCTCGAGT	AACTGGAAC	ACAGGCGTGC	ACTACCAAGC
100081	CCGGCTTTTT	TTTTTCTTTT	TCTCCCCCGT	TTCTTTTTTG	GTTATTTTAC	TGGAGACAGG
100141	GTTTCTCCAT	GTTGTCCACG	CTGGTCTCGA	ACGCTTGACC	CGCCGTCTCT	GGCCTCCCAA
100201	AGTGCTGGTA	TTACGGGCAT	GAGCCACTGC	GCCCGATTG	AAGGACCTCT	TAAATATCTA
100261	TTTAGAAATT	GGTCGGAGTC	CACTCCTTTC	CAAAAACATG	AGTCACAATC	CGGGAAAAGC
100321	ACGAGCGGCT	GAAAGTCAAA	ATAACCAGAA	CAAAACCTCC	ACTCATGCTT	AAAAAAGGTA
100381	TTTTGACAAA	ATCCTAATTC	GGCCAATTAT	TATTAGTATT	CAAGTCGAAG	GCTCGTCAAG

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100441	CCAGACTGGG	GATTGGGTCA	AACATAAACC	TTACACCAGA	CGGAAGGATT	ACATGCAAAAT
100501	GAAGGATGCA	GATTCTGATT	TCCCATTGGG	TATTTGACAT	TAGCCAATGG	GAGAATTCCT
100561	CACAGCCTAC	CTCCAGTCAG	TATAAATACT	TCTCTGCCCT	GCGTTCCTAAT	GTAGTTTCAT
100621	TACATTTTCT	TGTGGCGATT	TTCCCTTATC	AGAAGTAGTT	ATGTCTGGTC	GCGGCAAACA
100681	AGGCGGTAAA	GCTCGCGCCA	AGGCTAAGAC	TCGGTCTTCT	CGTGCAGGTT	TGCAGTTTCC
100741	TGTGGGCGGA	GTGCACCGCC	TGCTCCGCAA	AGGCAACTAC	TCCGAGCGCG	TCGGGGCTGG
100801	CGCGCCGGTG	TATCTCGCGG	CGGTGCTTGA	GTACCTGACC	GCCGAGATCC	TGGAGCTGGC
100861	GGGCAATGCG	GCCCGCGACA	ACAAGAAGAC	CCGCATCATC	CCGCGCCACC	TGCAATTGGC
100921	CATCCGCAAT	GACGAGGAGC	TTAATAAACT	CTTGGGGCGT	GTGACCATCG	CGCAGGGTGG
100981	CGTTTTGCCT	AATATTCAGG	CGGTGCTGCT	GCCTAAGAAA	ACTGAGAGCC	ATCATAAGGC
101041	CAAGGGAAAG	TGAAGAGTTA	ACGCTTCATG	CACTGCTGTT	TTTCTGTCAG	CAGACAAAAT
101101	CAGCGGTAAC	GCAAAGGCTC	TTTTTCAGAGC	CACCTACGAC	TTCCATTAAA	TGAGCTGTTG
101161	TGCTTTGGAT	TATGCCGCCC	ATAAAGATGT	TTTTGAGGTG	TTTTTAATGG	CTTTGAGTGT
101221	GGCACTTTTA	GTAATTTGTC	CTGCAGAAAT	TAGATCCATA	GAAACCTCAG	GAATTCCTAGG
101281	TATGTGGGAG	AAGTGCCATG	CAGCACAAAA	CATGTTTACA	GGGGTGATTG	GCGTTAAGTT
101341	TCACACACAG	CAGTTACTAC	ATTTTAGAGG	AAGGAAATTA	TACCCATGAG	TGCATTCCTA
101401	ACTATCTTGA	ATGGAAGTGT	TAAAACCCGC	ATGCCCCACA	CAAGTTTGAA	TATGTCATAC
101461	CATTTGCTGT	AGCAATTAAT	GGCATAACAC	ATTGAGAGCA	CACACATTAC	CACTGAACAT
101521	TTGAGTATGT	ATTTCCCAAA	ATGAGCTTTT	TTCCAGTTTG	GGGATGTTTT	GCTTTGTTTT
101581	GGGGTGGAGT	CTCCCTCTCG	CCCAAGCTGC	AGTGCAGCGG	CGTGATAACA	GCTCACTGTA
101641	ACCTCGAACT	CGGGCTCAAG	CGATCCTCTT	GACAGCCTTC	TGAGTAGCTG	GGATTACAGG
101701	CGAGAGCCGC	CACGCCCCGC	TAAGAGCATT	TTTCTAATTG	CCCACACTTC	TTATGCGACA
101761	CCCAGAAAAA	TACAATTTTA	AATAAAGCGC	ATATGCAAAT	TTCCCTAATC	GTCTCCAATA
101821	TTCTCTGATT	TCTTTTTTAT	ATTTTAATA	GAAACAATTG	GAGGTTTCCG	CGTTGCTTTG
101881	TGTGGTTGTA	AATTTTAAGA	CTTCAGGAAA	CTTTTCCAGT	ACAAGACTTG	TCCACAGTGG
101941	ATATAGCAGC	TAAGGGGTTA	ACAAAATGAC	GTCAGAGTAG	CTACGGTAAT	GGGCGAGGAGC
102001	CTCTCTTAAT	CTGCAACCAG	GCACAGAGAT	GGACCAATCC	AAGAAGGGCG	CGGGGATTTT
102061	TGAATTTTCT	TGGGTCCAAT	AGTTGGTGGT	CTGACTCTAT	AAAAGAAGAG	TAGCTCTTTC
102121	CTTTCTCCA	CAGACGTCTC	TGCAGGCAAG	CTTTTCTGTG	GTTTTGCCAT	GGCTCGTACT
102181	AAACAGACAG	CTCGGAAATC	CACCGGCGGT	AAAGCGCCAC	GCAAGCAGCT	GGCTACCAAG
102241	GCTGCTCGCA	AGAGCGCGCC	GGCTACCGGC	GGCGTGAAAA	AGCCTCACC	TTACCGCCCC
102301	GGCACTGTGG	CTCTGCGCGA	GATCCGCCGC	TACCAAAAGT	CGACCGAGTT	GCTGATTCGG
102361	AAGCTGCCGT	TCCAGCGCCT	GGTGCGAGAA	ATCGCCCAAG	ACTTCAAGAC	CGATCTTCGC
102421	TTCCAGAGCT	CTGCGGTGAT	GGCGCTGCAG	GAGGCTTGTTG	AGGCCTACTT	GGTAGGGCTC
102481	TTTGAGGACA	CAAACCTTTG	CGCCATCCAT	GCTAAGCGAG	TGACTATTAT	GCCCAAAGAC
102541	ATCCAGCTCG	CTCGCCGCAT	TCGCGGAGAA	AGAGCGTAAA	TGTAAAGTCA	CTTTTTTCATC
102601	AGTCTTAAAA	CCCAAAGGCT	CTTTTCAGAG	CCACCCACTT	ATTCCAACGA	AAGTAGCTGT
102661	GATAATTTTT	TGTTGTCTTA	ACAGAACAAA	TTTCTAAGGA	CCCCCCCCGA	AAGCATTAGA
102721	CTATGGTCTT	AAAGTTGATT	AACAGAAATA	ACGGTTTGGT	CAGTCTTGCA	GTGTAGGTTA
102781	TTTCTGACCT	TATTAAGGTG	CTATTTGGAG	AGAAGCTGTG	TAAGTCCACT	ATCATTACAGG
102841	CCTCTAGCTT	GCTATGATTA	GCATTTGTTT	AAACAACCTT	GTAAGAGTAA	GGGAAAAATC
102901	TGGTAAGTAG	TTAACTGGCG	CTTACTAGGC	ATTTTTGCAA	AGCTTTGAAA	AGATTAGAAA
102961	ATTGTGTCTT	GCGAGTTCCA	GTGTCTTCCT	CAAAATGCTT	AGGAAGATTT	TCTCAGCTCA
103021	ATACATAGTC	CCCTAGGTTT	TCTCATATAT	TATATATATA	TATATATATA	TATATACTGT
103081	TAAATTCATT	TGGCTGTTAA	CATTAACCTG	AAATTTATTC	TGGTGCAAAA	TGTGAGGCAG
103141	GGATCTAACT	GGCTCTCAT	TTATCCATAG	CTAGCTACCC	ACTTTAAATC	TGTCAGTCTG
103201	TCGACCAAGC	ATAATTTAAT	CCCTTATATA	TGAATTTTTA	TATGTGTGGC	TTTGCTTGTA
103261	AATAGTCTAT	CTGGTTGCAT	TGCTTTGTCT	CCTCTAGGAC	TATGCACCAT	GACATGCCAC
103321	ATTCTTTTTT	TCAGTACTTC	TTGCCCTGTAG	TTATTAAAAT	CTAGAATTTA	CAAGTTTTAA
103381	CCATTTTCTT	TCTGTTGATC	TTGCTTTTCG	GTTTTGGAGG	TTGGGGATTG	AGTACTGGAA
103441	GAAAAATTTAG	AGGGATGGGA	ATACTGTACG	CAAACAAAAG	TAATATTTAC	TTTAAATTTT
103501	TTATATTTTG	TATTTTTTTA	TCATATAGCT	TTTACATCAC	ATTTTACAGA	CTAACTTTAG
103561	AACAACCACA	GAATGTCCAA	CATTAAAACT	ACTAATTCCA	AAGACCTTGC	CTCACATTCT
103621	TTTTTACAAT	AAATATTTTT	TACACCTAAC	ATTCTTTCTT	GGCCTACATC	TAGAATGTAA

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103681	ACTGATGTAC	CATACTAAAA	TCGCTGACC	AACTGTCAAC	AACAACAAAT	CACACACACA
103741	AAAGATTAAA	TTTGAATTGC	ATCGTTTACT	TAAATTCATT	TGTGTTCCAG	CTTTTAATAA
103801	GGCAGTTTTT	GGTTTATAAA	GTAATATTTG	CATTTTAAAA	ATTATGAAAA	TGAATATGTC
103861	AGTTTGTGTT	ATGATTCGTT	TTTCTTGACT	CTTATACAAG	CGACTCTAAC	TGGCATAGAC
103921	ATTTGTTATC	CACAGACAGT	ATAGATATGT	TAGAGATGCC	AATGGACTTG	GTCTATGCCA
103981	AGGTGACTAC	TCACAAGCTC	TGGGCCCAGC	TGAAGGTCAA	GTATTTTTTT	TCCAGTTATA
104041	GATGTGCTGG	ATCTGATGTA	TAGCGCTTGA	CTTTTTATAT	TTTCTTTATC	TGTAGGAAAC
104101	AAATGTGTTG	GAGGTACTGG	GTCTGACGAA	TAGCATAAAA	GAATAAAGTT	ACATTACTGT
104161	CTGAGGATCA	GATGGACAGG	GGGTGGTAGC	TCAGTCCAGC	TATTTTCCAC	TCCCTCACTT
104221	ACATTCTTTG	CCCCCTCCTC	AACAGAACAA	GGATTCTGCT	GTAACCTCTC	ATTGACAGTT
104281	GATATTTAAA	AATTAACGAA	TGGATGAAAT	TCTCATTTGT	GAAAGAAAAT	TTATTGAGCA
104341	TTTTGTATTT	GTGAGTAGTG	CAAACATTTT	AATATTATAT	TAAGAATCTA	TTGTTTTGTA
104401	TTAGAGGAGT	AATTAAGGAG	AGATTGGAGA	CAAAAAGGGG	GTGTTGTTTG	CAGAATATAC
104461	CATCCAAAAA	TAGACCACTG	TGGGATCAGG	ATTCTTTTGA	GCTAAAGGCA	CTTCAAAAAC
104521	AGCATTCAAG	AAGGGAATTC	TTCTAAACTT	TTCTTTCTGA	AAACAGGAGA	TAAAAGTTCC
104581	AATGTGAAAA	ATGCTCTGCT	TGTACCAGGT	GAAAAGACAT	ATTCTTCAGC	CCAGAGGCAT
104641	AGATGAGATA	ATTCTGCACA	AACACAGCAG	GGAGTCATAG	CCGAGAGACT	TCTATACACA
104701	AACAAACCTT	GTTAAAATAA	TCATATATTC	CTTTAATCTC	CTCATATGGT	TTACTTTCCC
104761	ACAATTGCCT	CTCTTTAACT	TAATGTGAAA	GCATTTAGCT	TTTGCCATTT	CTTTGGGGCT
104821	TCACTTTTTT	ATGAGGGTTC	TCCTGTCCCA	TAAAATTTAC	ATTAAATACA	TTTGTATGCT
104881	TTCATTCTGC	TAATCTGTTT	TATGGCAAAT	GAATTATCAG	GTCCAGCTGG	AGACCCTAAC
104941	AGAGTAGAGG	TAAAATTTTG	CCTCCCTACA	AGATAGAGAT	TGTGTGCATT	AAATGTTGTT
105001	TGTTCCAGT	TGTTCAAGTT	GTCAGGCCTC	TGAGCCGAAG	CTAAGCCATC	ATATCCCCTG
105061	TGAAGTGCAC	GTATGCCTCT	AGATGGCCTG	AAGTAACTGA	AGAAACACAA	AAGAAGTGAA
105121	AATGCCCTGT	TCCTGCCTTA	ACTGATGACA	TTACCTTGTG	AAATTCCTTC	TCCTGGCTCA
105181	TCCTGACTCA	AAAGCTCCCC	CAGTGAACAC	CTTGTGACCC	CCACCCCTGC	CAGCCAGAGA
105241	ACAACCCCTT	TTGACTGTAA	TTTTCCACTA	TCTACCCAAA	TCTTATAAAA	CGGACCCACC
105301	CCATCTCCCT	TCGCTGACTC	TTTTCCGACT	CAGCCCGCCT	GCACCCAGGT	AGAATAAAC
105361	GCCTTGTTGC	TCACACAAAC	CCTGTTTGAT	GGTCTCTTCA	CACGGACGCG	CCTGAAACAG
105421	TTTAACAGGG	TTTTTCCTGC	CCAGTCACAA	CAAAGTGATG	TTATGCTGCA	GGCTGAAGTT
105481	TACAGCTAAT	GCTGTTGAAG	TCTAAAATCA	GTTTTGGTTT	GTTAGATTTG	GGTGAGATGG
105541	CTAAGATTCT	CAGAGAAAGA	AGTCAAGTTT	GGGGTGCAAT	TTTCAGACTT	AAAAATTTAG
105601	CAGTAGCCCT	TGCAGTTTTT	CCAATAGAAG	TGATTTAAGA	ATGTTTTTCAG	GAAATTTAAA
105661	ACAACAGTGA	GAAGCGTGTA	TGGAGAGTTG	AACTACACTC	CAGACTTGGC	TATAGGAAAG
105721	CACGAATGCT	GCTATTGTAT	TGCACCTTGG	AAAAGAGAAC	AAAGGAATAT	TTTCGGACAA
105781	TTTTAACATG	TCACATATGA	AAAGCTAAAC	GGAATCTGTC	AACACCTTGT	ACGTTATTAC
105841	AGGCTGTGAT	TTTAAAAAAA	CAATCCTTAC	TAATACATAC	ATAGTTGCTG	CTAGCAATAT
105901	AGTGTGAGGA	GTAAAAACAC	GAAAATGAGA	GTTTCAGGACA	ATATCCCAAC	TCTGAGCAGA
105961	TTTTTTTAA	TAGTAACATC	TAAAATTTAA	CCATATTATG	TAATATTTAT	TTCTTTTCCA
106021	CAGTCTCTTC	TCATGCCTCG	TTCACTTAG	CTAATTAATA	GTCCCTTGAG	TATCATCATA
106081	ACCCGATTTA	CAGATGAAGG	CACGGTTGCA	ATGAGCTATC	ACCCTCTTCT	GAATGAGACA
106141	GTACAGTGTG	AAGGATAGCA	AAACTCCACT	CCCATCCTCT	TAGGGCTCTG	GCTGGACCAG
106201	CAAATTAAT	TAATGTAAAA	TGGATTAACA	GGAGAAAGGT	ATATGCATTT	ATTTAACACA
106261	GGTTTTACGT	GACACAGGTG	CTCTCATAAG	GTAATGAAAG	CCCCAAAAAA	GCAGTTAGCT
106321	ACTTATATAA	TGAATTGGAC	AATTAGTAAA	ATGTAAAAAT	GCGCTAAAGC	AAAGGGATTT
106381	AGGCTAGAAT	ATATAACTGT	GTAGAGAAGC	GCCCAGCAAG	GGCTAGTGCA	AGGTTTGTAC
106441	AGAATTCTCT	TGGCCTCAGC	CTCCTATCCT	TGAGAAGAAT	GTTGCTTTTT	TTAACTACA
106501	GTGAGAACAT	CTTTCATATG	AGAATTTTAC	CTACTGCTTC	TAAGAAACAG	GTCAGCTTTC
106561	AAGAAAACAT	AAGGCCAGAG	TGATCTTTTC	ACGCCTGCTC	TTTTAAGTAC	CTTTGAATAG
106621	TCAATATGTC	TTCAAGCACT	TGAAAGACTT	AAAAAGTTTA	CCACTCCGGC	ATATTAGTGA
106681	AAGCCCTTAA	TATAAGCCCT	TATTAAAATT	CTCAGTCGAG	GGTATAAATT	CAGATTCAAA
106741	TAGTAGTGTC	GTAACGGGA	GGGAAAAACT	AAAGGGATTA	AAAAGTGAAA	CTATTGTGTT
106801	CTCCCTCGCA	GTCTTAGGT	CACTGCCCC	CGAGGGGCGG	AGCAAAAAGT	GAGGCAGCAA
106861	CGCCTCCTTA	TCCTCGCTCC	CGCTTTCAGT	TCTCAATAAG	GTCCGATGTT	CGTGTATAAA

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106921	TGCTCGTGGC	TTGCTTTCTT	TTCGCGTACC	TGGTTTTTGT	TGTCAGCTGG	TTAGACATGT
106981	CTGGTCGCGG	CAAAGGCGGT	AAAGGTTTGG	GTAAGGGAGG	TGCCAAGCGT	CACCGAAAAG
107041	TGCTGCGGGA	TAACATCCAA	GGCATCACCA	AACCGGCCAT	TCGGCGCCTT	GCTAGGCGTG
107101	GTGGGGTTAA	GCGAATTTC	GGTTTGATTT	ATGAGGAGAC	TCGTGGCGTT	CTCAAGGTGT
107161	TTCTGGAGAA	CGTGATCCGG	GACGCCGTGA	CCTACACGGA	GCACGCCAAG	CGCAAGACTG
107221	TCACTGCCAT	GGATGTGGTT	TACGCGCTCA	AGCGTCAAGG	ACGCACTCTG	TACGGCTTCG
107281	GCGGTAAATC	TTTTCGTCAG	TTTTCTTCCA	ATGGCCCTTT	TCAGGGCCGC	CCACTCCCTC
107341	TCAGAAAGAG	CTGTGATTGT	ATTCTTTCGG	ATGGTAACAT	CTCAATGGCT	TTACTCGGCT
107401	ATTCTGCCTA	GTATGTAGAA	CTATTATAAA	CCAGTTGGGA	GAGACCAGGT	TGTTTGGTCT
107461	GAGTGGCTGC	TAAAGCAGAA	ATCAGCTAAG	TAAACGAGGT	CTCCGAGATA	AGTGAGCTAT
107521	AAACTTCAAT	GCTATAGTTT	TGACATGTCA	AGCAACTTAA	CGTGCAGCGC	GAGTCCGATA
107581	AATGAGTAGC	TCAGCTTTT	AGTTTTAAAA	ACGAGTTGTG	CGTTATTTGT	ACGAGAGCCT
107641	AAGATGCTAG	CTGCCTGGAA	CTGAGTAGGT	GGATTAAAAT	GGGTGTCAGG	TCTGTTTTCC
107701	CAGGCGTATC	TGACTTAACG	TCAGCAAAAG	CTGTACTTTT	AGCTTCCCTG	GTAACACCTG
107761	CCGTCTTAA	CCGCCCCCTG	CCGGTAGCGC	CAGAAGCCTT	TACTTCCATT	TCTAGTTGAG
107821	CTTGGCGTCC	TGCTGAGTGA	CGTCACCTCC	CCCTTCTCTG	GAGTAGGACT	GGCGGTTAAA
107881	GCTGCTTTGC	TATTTTCAGT	CCTCAGGCTG	GAGGCTCCCC	TAAGCAGGCT	GCCTACGCAG
107941	TTCGTAAAT	CCCACTTAGT	AGACTAAGGG	AGTCTGTTTT	ATAAATAAGG	ACTCAAATTT
108001	CTTCTGACTC	CGAGGTCCGT	GGCAGCAGCT	ATAAGATGGA	AGCCCCCTCT	GATGTAAGAT
108061	TCTCAGATGA	CTTGCATCTT	CACTGTACCT	GTCAACCCAA	TAGTCTTCTA	TTCCTGCCTT
108121	AAATTGTA	TTCCAAAAC	GATTTAATTG	TGAAAGTTTC	AAACTGTACG	ACCTAGGAAG
108181	TGTCAAAGTT	AGGTGACCAG	ATTTTTAGAA	GTCAGCCAAA	TATTCAGCAT	CTTTGATTTA
108241	GTAACAAATA	TATTGATGGC	TACTTCAGCA	AAAAAAATCA	ACTTTGTTTT	TGGTTACTTT
108301	TGCTAACAA	CTTCTCCTGA	CAGGAGGATA	TAGTGAATAG	GCAGTTGAAT	AAGTGAGTTC
108361	GGGTGAGAGG	TCTGAGCTGG	AGATAAAAAT	GTGTGAGTCA	TCAGCAGATA	AATAAATGCT
108421	GAGACCAGAT	GAGATGGCTA	AAAAGTGA	CATAATGTAG	TGCAGCATTG	TTTGTAATAG
108481	TAAATGAGTG	GCAACTGTAA	AGTTTTCATC	AGAAAGGACT	AGAGTGATCT	ATACATCCAT
108541	AAAATAGAGT	ATTTCTCTAC	ACAGCCCTAC	TAAAGAATGA	GAAAGCTGTA	CTCCACTACA
108601	TACTCTGGTG	TACTCTGGCT	CAGTTCCTTG	ACTCCTCTTT	TCTTGGCTAA	CTCAACTGGC
108661	CTCACCACCT	ACATGCTCTG	TGCTCTGTCA	AATAGTTTGT	TCAACAGAAC	ACCACGGCCT
108721	AGCTGTAAGT	GCCACGTAA	CTTCTAGCAA	TGCCAAAGCC	TGTGATAGTG	GCAGCTTCGG
108781	GCTGTTTCTC	ATTCCCAGGA	TGCCTAACCA	CCTCTCCAAA	TTCTATCAGT	TTGCTTCCAC
108841	CCACTTCAAG	CTTCAGAACG	AAACATAGAG	CTTAAGAAAT	ATAGGCCCGG	CAAGGTGGCT
108901	CACGCCGTGA	ATCCCAGCAC	TTTGGAAAGC	TGAGCCTGGT	GGATCACCTG	GGGTGAGGGG
108961	TTCGAGACCA	GCCTGGCCAA	TATTGTGAAA	CCCCGTCTCT	ACTAAAAAA	AAAAAAAAT
109021	TAGCTGGGCA	TGGTTGCGGG	CGACTGTAAT	CCAAGCTACT	CGGGAGGGTG	AGACAGGAGA
109081	ATAGCTTGAA	CTCGGGAGGC	AGAAGTTGCA	GTGAGTTGAG	ATCGCGCTAT	TACACTTAGG
109141	CCTGGGAGAC	AAGAGTGAAA	CTGTGTCTCT	AAATAAGTGT	TTGCAATTAT	AAACCATCTC
109201	CCTGACCTTA	AATCTCTAGA	CTCATATACA	ACTGCATATT	TGATGTATCT	AATTGAATAA
109261	TGGGCATCTC	GAACCTGTCC	AAAATATGTT	TATACGTAAA	CACCAAGTCT	GTTCTTCCTC
109321	TGATATTTGT	CATGTCAATC	AATAGAACTC	CATTCTTCAA	GCAGCTTGGG	CCAGGAATTG
109381	TGCAATATTG	TTTGTCTCTG	GCTTCTTACA	ACTTTCACCC	AATGCAGTCA	GCTCTGTTGA
109441	AAATCAATCA	GAATACCTTT	CATTGTTTTT	TTTGTCTGCT	CTCTAGGAGC	AAGCTGCCAT
109501	GGCGGTTTTG	CTGAATGACC	ACAGTGACCC	CAAACCTGGT	TTTGTTTTCA	CTTTTAATCC
109561	CCCTGTCATA	CAGTTTTTTC	TCTATCCAGC	ATCAACAGTG	ATCCTTTTTG	AAGGTATTAT
109621	GTCCACTGTC	TGCTGAAAAG	ATTCCACTGG	CTTCCATCA	CCTTCATAAT	AAAAACCAGC
109681	ATCCTTATCA	TAGCCTACAA	GTAAGATGAC	CAACCATTAC	AGTTTGCCTG	ACTCTCAGGG
109741	GTTTCTCAGG	GTGTAAGACT	TACAGTGCTG	AACTTAGAA	AGTTCCAAGC	AAACTAGGAT
109801	GAGCTGCTCA	ACCTACTAGA	TCTGTACTCT	GGCTACCCCT	TGACCTCATT	CTCTTCGCAG
109861	TTCTTTCTCT	TCACTGACCT	TGCTGTTTCT	GGAATGGACC	AAGCATTTCC	AGCATCAGCA
109921	CCTTTATATC	TATTCTTTCT	CCCTAGAAGG	GTCTTGTCTT	GGATATCTGA	ATGGCTCTAG
109981	ATCTCATTTT	ATTCAAGCCT	CTCCTCAAAT	ACCAACCTTA	CGAAAGAGAC	CTCCCATAT
110041	CATCCCTTGT	AAAATAAGCT	TTTCTGCTCA	TTTAGCATAT	ATATATATAG	TTGACTATCC
110101	TCAATAGCAT	ATATATATAA	CATTTCCCCA	CCTAGAATTA	TATATGTAAT	AATATATTTA

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110161	ACAAAAAATA	CATATAACTA	GATATATTTT	ATTTTGTGTT	TGTTCTCTCT	CCCCCAACTG
110221	GAATATATTT	TTTGAAGGTA	GGGACTTTGT	TTTGTCCCAG	AAGTATCCCT	AGCACCTTGA
110281	ACAGGGCTGA	CGTTTAAACAG	GTAGTTTATG	GAGGTTTGT	GAATGAAAGG	ATGTGTGAAT
110341	TTTCTATGTA	AGTCTCCAGG	CTCTCCACTA	AGCCCACCAG	AATGCTAACA	CAATCAATTC
110401	CCCATCTCAT	TCCTTGACCT	GCCACTGCCT	GAAGCAATCA	GCGTGCAGTT	TCTCTTTAGA
110461	AAATCTGGGG	GATAGTCTAG	GGGTTGCAAA	TTAAGCAACA	TTATCTTTGT	TCTGAACAAG
110521	GACTGCATGA	GTGTTAGGAC	TGAAGAAGGC	CCAAGGTGGT	GGTGGGTATG	CCTAAGATGA
110581	GTATGACATA	TCAGCAATGC	TATGAACATA	GCAATGCTAT	GAAAGGCCAG	GCAAAACGTA
110641	ACAGGAGCTA	GTCGTGGCTT	ATTGTTACAA	CGACTATACC	TCCCATATGG	GTAATCGATA
110701	TCCACACACC	CCTCTACATT	GACTCTGGAA	TTCAGGAAAG	GGAATTAAAA	TTTTCTAACT
110761	TATGTACCCC	AATGATTTCA	ACAATATCTG	GCATATGAGA	TCAATAAATA	TCTTTAAAAAT
110821	ACCAACTAAG	AAAGACATAA	AATGACCCAC	CCTCCATACC	AGGCTCATTT	TTGCTCCTCT
110881	GATTCCTGAA	ACTATCCAGA	ATGCAGCTAT	GAATTCTCTC	CATTGTCAGT	TTTAAATTAA
110941	GCCAAGCTGG	GTACTTGTGT	AATTCTCTAA	GAAATCCTGG	ATGAAAACCTG	TCAGGTGGAA
111001	AACAGGACCT	CAAAATAAAG	AGACATCCAT	CACTGAAGCT	AACATCGTGA	GGCTGAAATC
111061	AGTCCTATAA	CAATGGTACC	AAAAAGAGCA	CAATGAGAGG	CATTTGTGAA	TCTTTACTCA
111121	GATGAGAGTA	AGATATTTCC	CTATCAGCTA	ACCTGAAGTT	CACATCCCTT	TTCCAGCTGA
111181	GTTCTGAAGC	TAGATGTACT	TAACTGGAAC	ACATAACTGC	ATCAGGAACA	TCCTTTAAAA
111241	CTATGGCTAC	CATGGCTTGA	CTGGACAAAC	CCCAGGCTTC	CAGGTTTAGC	ACAGGTGGCC
111301	CTTCACAGAC	CAACATTGCC	TATGCTACCA	ACCTCATGTC	CTACCACCCT	GCTTGCATCA
111361	TTTCTCTCTC	TGCATATATA	AAAATATATG	TGTATGTATA	TAATCAGCTT	TATTGATATT
111421	TAATGTACCA	CAAAATTTGC	CCACTTTAGG	TACAGTTCAA	TGAATTTTAC	CGTGTTTTCT
111481	TAGTTGTACA	ACCATCATCA	CAATTTAATT	TCGGAATATT	TCTATCACCC	AAATTTCCAT
111541	TTCTGCGTAA	AGGGGGAAAA	AAAAAGGTTA	ACTGCTGAAG	GCCGCGGTAA	CACTGAAAAA
111601	GGTGCCTTTT	CTCTCTAAAA	CAGATTTTAA	TCTCCCCTGA	ATTTAGTGTC	CTGGGTATTC
111661	CAGGAGTCTG	AATAGGGTTT	CAATTTTCAG	GGTCTTTTTA	ATAGAGTAAA	ACTGTATTGG
111721	TGGCGATAAA	TTTAGTATTG	CTCTCAGTAC	ATGATTGAGG	GATACTTAAA	TGTCTCTGTG
111781	ATTTTATTTT	ATAATCGCTA	AAAGATGGTT	TTTTTTTTTC	CTAAACAGG	GTTTTTGT
111841	TTTCTCAATA	AGCTTCTTAG	CTTCCCCTCC	GGCTCCCTGG	CTTGCCCTAG	GAAATATTAG
111901	CTCATCAGTT	CTGATTGGTT	GACAGCTACG	AATGGCCCTC	ATTGATTGGG	CAGCGCTTCT
111961	TTGTCCCTTG	GAAACTAATA	CAAAATTTTA	ACACTACTTT	TTTTCCACTC	TTTCTTCAGA
112021	GTTGGAATAT	CGTTGCTCCC	CTACCCATAT	GTAGTGAGTG	GAGGGCAAAC	TTGGAGTTCC
112081	CCTAATCTTT	CCTTTTTAGG	ATGTCAGCTC	AGTATCATTC	ATCTTAATTA	CACATTGAGC
112141	TTCTTGACTT	AATGGATACA	GCTCTTCTTT	TGTTTAGTTG	GGCGGCCCTG	AAAAGGGCCT
112201	TTGGTTCAGA	AATGCAAGCT	GTGGAGAAAT	CAGCAACCTT	AACCGCCAAA	GCCATAAAGG
112261	GTGCGTCCCT	GGCGCTTAAG	CGCGTAGACC	ACGTCCATGG	CAGTGACTGT	CTTGCGCTTG
112321	GCGTGCTCCG	TATAGGTGAC	AGCGTCACGG	ATCACGTTCT	CCAAAAACAC	CTTGAGCACC
112381	CCGCGAGTCT	CCTCGTAGAT	CAGACCAGAG	ATCCGCTTCA	CACCGCCACG	CCGGGCCAGA
112441	CGCCGGATGG	CCGGCTTGGT	GATGCCCTGG	ATGTTGTCAC	GCAACACCTT	GCGGTGGCGC
112501	TTGGCACCCC	CCTTACCCAA	ACCCTTCCCG	CCCTTACCAC	GTCCAGACAT	GACTTCCCAA
112561	GAAGTGAACC	AAGAGCAAGT	GAGAGAATAG	GAAACCGATC	TTTATATATC	TACGTTACCC
112621	CTGCCCCCAC	CTCCAGCGGA	CACTGAGACT	GAAAAGCGCG	CAGGCGGGAA	ATGTGACGCC
112681	TACAGTCCGC	TCCTTTAACC	CCTCCTCCAA	GCCCCAGGAA	ATGGCGGGAG	CAGCGATTGG
112741	GGGAGGGTGG	GGAGATGAGG	GTGGGACCAA	GCAGGCTTGA	CCAATGGCCT	TTATTTTCTT
112801	AACAGAGCTA	CAGGCTTTGA	GGAAGTGGGT	TAAGAATTAA	ATGTAAACCC	ATTCTGACTC
112861	CAGAATTATT	TTAAGTCGAA	CTTTTTTTTT	AACCGAATCT	CTCTGTGCGC	CAGACTGGAG
112921	TACATTAGAG	CCATCTCGAT	TCAGTAAAC	CTCTGCCTCT	CAGGTTCAAG	TGTTTCTCCT
112981	GCCTCAGCCT	TCAGAGTGTA	GCTGGGATTA	CAAGCGCTCG	CCGTGCGGCC	CGGCGTGT
113041	TTGTATTTTT	CGTAGAGACG	GGATTGCGCC	ATGTTGGCCA	GGCTGATCCC	GAACCTCTGA
113101	TTTCTGGTAA	TCCGCCCCGC	TCAGCCTCTC	AAAGTGCTTG	AATTACAGGC	GTGAGTCACC
113161	GCGACCGGCC	GAAATCGATT	GGTTTTGAAG	CCTTCAGTAG	CATTAAAACG	AAAAGTGCTC
113221	CCAATGCATT	CCCTTTTGTC	TTAAATTGGT	TTCTTACAGC	TACTTTACTT	GAAAAGGTGG
113281	TGGCTCTGAA	AAGAGCCTTT	GCTTGGACCG	TCAGAGAGAC	CACAGTAATC	ACGCCCTCTC
113341	TCCGCGGATG	CGGCGGGCGA	GCTGGATGTC	CTTGGGCATG	ATAGTGACGC	GCTTGGCGTG

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113401	GATGGCGCAC	AGGTTAGTGT	CCTCAAATAG	CCCTACCAAG	TAGGCCTCGC	ACGCCTCCTG
113461	CAGAGCCATC	ACAGCGGAGC	TCTGGAAACG	CAGGTCTGTT	TTAAAGTCCT	GCGCAATCTC
113521	GCGCACCAGG	CGCTGGAAAG	GTAGTTTACG	AATAAGCAGT	TCAGTGGACT	TCTGATAACG
113581	GCGGATCTCG	CGCAGAGCCA	CGGTGCCCGG	CCGGTAGCGG	TGGGGCTTTT	TCACGCCGGC
113641	GGTGGCCGGA	GCGCTTTTGC	GGGCTGCCTT	AGTGGCCAAC	TGTTTGCGTG	GCGCCTTGCC
113701	ACCAGTAGAC	TTCCGAGCAG	TTTGCTTAGT	GCGAGCCATG	ACGGAAAAAC	AGCACAGCGG
113761	AACACCCAAC	ACTAGCGCAA	ATACGCCCAT	GAGCTGCTCT	ATTTATAGTG	TGTAAAGTGC
113821	AGTGATTGGA	TGATAGAAGA	CGCTAAATAT	GACGTTACAC	ACTCTGATTG	GTCTATCTTT
113881	AAGCCAGCAA	CAATCGTGCA	GTTTCACCGG	CTACTATATT	CTATTCCAAC	TCTACAGATG
113941	ATTATTTAAG	TGGTATTTTA	TTACTACTAT	TATTTTATTT	TACTTTTGCT	TTGTTCCCCA
114001	AGCTGGTCTT	AAACTTGGGC	TCAAAGGATG	TTCCCGCCTC	AGCATCCAGA	GTAGCTGGGA
114061	TTACAGGGGA	GCCCCACTGC	GCCGGCTTGG	ACTTTAATTT	TTTAAACTTG	TCCTCTTCTA
114121	CATCTGGTTT	TCATAACCTG	AAGGCTGTGT	TTATTTTCCA	TAAACAAGG	CATTGATTCC
114181	AAAGGTATTA	TAATTCCCCA	ATTCCGTATA	ACCTTCAGCT	CTTTAGGAAA	AAAAAAAAAA
114241	AAAAAAAAAA	GAGGGAATAC	TGCTCACCTC	CTCTCCGGAA	ATGTACCCTT	TACGGGAATT
114301	TCTGAAACCT	TTCACAAGAA	TTGGATTCCCT	TTGTAATGCT	TTAATTGACT	TAGGAGTGTT
114361	ATTGAAATCT	ACAAAGCATC	TCAAACATAG	TAGGATTACA	CTATTACTCA	GAAACATTTT
114421	CTATGAGACG	TCTTTCTCTT	GATTATGCTC	TTTGAATCCT	AAACTTGCAG	CGTTCCTGCAG
114481	CTTTTGTTTT	CTAAAGCCTA	GGTGTACTCT	GCCAGTCACA	AAATGGCGTT	TCTCCAGCAC
114541	TGCCGCCAGG	TACCACCAGC	TGGGAGTTGT	TCCTCTTGCG	GAGCAGGAGG	TGGACTTGGC
114601	CCAAGAGAAA	CTGGATAGTG	GTTCGCAAGG	AACATAATTT	AGCATTGCCA	AGAGCTAATG
114661	CAATCATTTT	GAAAATCTCA	AAACACTGAA	AAGTGGATTG	TGACCTTTT	AAATTACAAA
114721	GAGACAGGCC	ACATTCTATC	TTTTGATTGG	TTTAGGCTAT	TTTCTTGAAC	AGCCATTTAG
114781	AAAGCAGATC	TATCATCCTT	CATTTGCATG	GAGCGTTCCC	ATTTTATTTG	AAACCAGTTT
114841	AACCCAATAG	AAAAAAGGGA	GGCAGAACCC	ATTATTTAAA	GTGGAAACTC	CTGAATCAGA
114901	TAATTAGGAG	TATTTCCCTT	TCAAAAGTTG	CGTTTTTTCA	GATACCTCGC	TTATTACACT
114961	AAGAAAGGTT	TATATCTTTC	ACAAAGGGTT	TACTTACAAA	AATCTTCCAA	TTTTGTATAC
115021	CTGTGTTTCA	TAAGTACTTA	GCCGTCAAAC	CAAGATGTAG	AGTTTCCAAC	CGTTATTTTC
115081	CAAATTTTTA	GAAATTACGT	GAAATATTTG	AATGCATGCC	TTCTCAATAA	AATGGGACGT
115141	AGGAAGCACT	GGTGCAGAAG	ATGGGTACAA	TACTTATCTG	GGACCACTCC	ATTATTTGGT
115201	TGGCACGTTG	TTTGAACAAA	AAGGGGAAAA	GCTCAGGTTA	CTTAGCATGG	TTCCGACTTA
115261	TTTGAAAAC	ACCACAGCAG	GAGCGGAAAT	AAGACCGCAT	TACCTCACTC	TCTGCTGTGC
115321	TGTGCTAGGG	GGTTATCCAG	AATAGGATTG	TAGAAGTGGA	TGTCGATTTA	ATAGTTTTTT
115381	ATTCTCCCAT	TAGCTGAGTC	TCTGATTGGC	AATGTGAGAT	CGTTTTAGCT	TATTGATACT
115441	TTGAAATGCA	CTTAACAGCC	ACAAACAAGT	TAAAGGGTTG	TTACCATAAA	ATCTTATCCC
115501	CAGGGTGTGC	TTGCATTTAT	CACCCGTGTT	TGCTTTCACA	CTAAGTGGAC	TTAACTCCCC
115561	AGCAGAATGC	CTGTCAGGGA	ACCGGTTTCG	TGGACCCAGC	ATTTAACGCC	TTTCGCAGGC
115621	TTGTGAGGCC	CATAAATATT	TGTTGAATAA	AAGAATGAGT	TGACCATGTC	ATGGTGCCT
115681	GATTGCGTGT	GCTGACATGG	AACACAGGTT	GTAAACCTTA	ATACCAATTT	GGGGCATGTT
115741	GTATGGATGA	AAAGGGCATT	GGAAATTCCT	GAAGTGCATC	CCACATTGGA	CTGTGGAAAT
115801	AAGTTGCAAG	TGCAGAAACG	TTTCCACACT	TGCAGTTTGA	GTATTAATTG	CAGCGTTTGT
115861	GAATTCTGGT	GTTGTCTACG	ATTCATTCTT	GTTTGACGTG	AAAGGTATTC	GCGAGACACA
115921	TCGCTCTAAA	ACATTGCCAG	AAAATGTAAT	AGAGTTGATG	ACAACCTGGC	CTAACACGGC
115981	CTAAAACTCG	CACTTTTCTC	TCCCTCCGCA	ACTATTCAAA	ACACTGTATT	TTACATTTCT
116041	TGCAAAATTAA	AAACTAACAT	CTCTGGCAAC	GGACCTCTAA	AAATTTCTAA	TAAAACTCCT
116101	CGGATGCTTG	TGGCACTGCA	TTTGTAACC	GCCCCCTCTC	AACCTACTCC	CTAAAAAAGA
116161	GCTGCTTTTT	GAGAGAGAAG	CGGTACCCTC	TGATGTTACT	GGGCGGCAGT	CTGCCTACAA
116221	TTTCCTTCAC	AATGAGGCAA	CCAGAGCGGC	TTTTTCTGTG	TGTTTGCTTG	CGTTGAGGGG
116281	AGCAGGACCA	TAGGCCCTAG	AGGCCCCAGG	CTGCCTTCTG	AGACTGGGCG	AAACCTCCGG
116341	CAGCGCGCAG	GGGGCGCTAG	GGCGCGAGGG	GCGGGCACTG	ACGGGCACCA	ATCACGGCGC
116401	AGTCCCACCC	TATAAATAGG	CTGCGTTGGG	GCCTTTTTTT	CGCATCCTGC	TTCGTCAGGT
116461	TTATACCACT	TTATTTGGTG	TGCTGTGTTA	GTCACCATGT	CTGAAACAGT	GCCTCCCCGC
116521	CCCGCCGCTT	CTGCTGCTCC	TGAGAAACCT	TTAGCTGGCA	AGAAGGCAAA	GAAACCTGCT
116581	AAGGCTGCAG	CAGCCTCCAA	GAAAAAACCC	GCTGGCCCTT	CCGTGTCAGA	GCTGATCGTG

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116641	CAGGCTGCTT	CCTCCTCTAA	GGAGCGTGGT	GGTGTGTCGT	TGGCAGCTCT	TAAAAAGGCG
116701	CTGGCGGCCG	CAGGCTACGA	CGTGGAGAAG	AACAACAGCC	GCATTAAGCT	GGGCATTAAG
116761	AGCCTGGTAA	GCAAGGGAAC	GTTGGTGCAG	ACAAAGGGTA	CCGGAGCCTC	GGGTTCCTTC
116821	AAGCTCAACA	AGAAGGCGTC	CTCCGTGGAA	ACCAAGCCCG	GCGCCTCAAA	GGTGGCTACA
116881	AAAATAAGG	CAACGGGTGC	ATCTAAAAAG	CTCAAAAAGG	CCACGGGGGC	TAGCAAAAAG
116941	AGCGTCAAGA	CTCCGAAAAA	GGCTAAAAAG	CCTGCGGCAA	CAAGGAAATC	CTCCAAGAAT
117001	CCAAAAAACC	CCAAAACTGT	AAAGCCCCAG	AAAGTAGCTA	AAAGCCCTGC	TAAAGCTAAG
117061	GCTGTAAAAA	CCAAGGCGGC	CAAGGCTAGG	GTGACGAAGC	CAAAGACTGC	CAAACCCAAG
117121	AAAGCGGCAC	CCAAGAAAAA	GTAAATTCAG	TTAGAAGTTT	CTTCTAGTAA	CCCAACGGCT
117181	CTTTTAAGAG	CCACCTACGC	ATTTTCAGGA	AAGAGCTGTA	GTACACAGAT	GAAATCCCCC
117241	AAGCAAATGC	AACACGCCCT	CAATTATATT	AGAATCACTT	GGAGAGTCGA	TAGAACTTTA
117301	ACATAGCCTC	ATCTAGTAAG	AATTTACTAC	TCAATCTATC	AAAGATAGCA	AGGTGAATTC
117361	AAATGCACCG	AGTTAAAAAT	GAGTTTTTAA	GTACCTGGG	TTTCGGTAGC	CGGAAGTCCC
117421	GCGTCTCACG	ACTCCAAGCT	AATTAGTCAT	AACCGTATTG	AACCAAGGTT	GAAGCCCAGT
117481	CCCAGGCTTG	AGGCTTTTTA	TTATACAAGG	TTAAAGTGGG	GATATTGCGT	TTTGGGGTCA
117541	ATATTGCTAA	AGTAGCATT	TCCGAAATTG	GGTGGTCCTA	AGAAATGCTT	CTGGGATAGT
117601	TGGCAAAATA	TATGGCTTAA	CCACGCCCTC	TCCACAGGAG	TGGCTAGCGA	GCTGTCTGTC
117661	CTTGGGAAGG	ACGGTGACCC	TGCTGGCGTG	GCTGGCGCCC	ACGTTGGCGT	CCTCTGAAAG
117721	CCCCGCCAGG	TAGGCCTAGC	TCGCTTGCTT	TCTGCAGCGC	CATCATGACA	AAGCTTTGAA
117781	ACGCAAAATG	CTTTCTTTGT	GCAGCGCCTT	ACCATGGGTG	CACTTACGGG	CTGTGCACTT
117841	GGTTTAGGCC	CTTGTCAGGA	CAAAGGAGCT	TAGTTTGTG	GAGTTTGTAG	GCTGCAACCC
117901	AAAATCCCTT	GCTCGGTTTC	TCTGTTTTTA	GAAACGGAAG	CGCCCTGATT	GGATATTTGA
117961	AAATTACTGT	GCTTAACTGG	ATCGTGTTTC	ATCAGTCGTG	CAGGATTTTC	AACCCTGGTG
118021	GAGCCCACAC	ATTCAAAACT	GAAGATCCTT	TTCTCAGAAC	TGCCCCTTTA	AGCTTTTGCA
118081	ATTTTAATTC	TGGGGGTCAG	ATTTTAATAA	TTGGACTTTT	TTGTTTACAT	CTGACAAGAG
118141	TATATGATGA	GCCAAGTTTA	CTCACTTTTA	CTTAGTGCAG	TTCAATTCTA	AAAGTTTATT
118201	TTTGCGTGTG	TGCATATGAG	TTAATAATCA	GTTGTATTTT	TCAAACGGTC	TTTTTTCAAT
118261	TGTTTTGCTT	AGCTCCTTCC	ATCGTCTAAA	GTCAGGGATA	CAGGCACATC	ACATCCCTGT
118321	TCCCCCTTCC	TCAAACATAA	ATGTAGCTAC	CTAGGTTTAT	CCTTTAAAC	AAAAATCTC
118381	ACCTATTTTT	GTGAGAAATA	TACATGTTTT	TCTTTGAACT	AAGTATTTTA	CATACACCTA
118441	TCTATATACA	TGCATACTTG	TGGTTTTGTT	TTTTTAAAAA	AAAAAAAAAA	AAAAACGTT
118501	ATCTTTTGAG	ACTGGGTCTC	AGTCTGTTGC	CCAGACTGGA	CTGCAGTGGC	ATAATCACAG
118561	CACACTGTAA	CCTCCAACCTC	CTGGGCTCAG	GCTATCCTGC	AGCCTCAGCA	TCCGGAGTAG
118621	CTGGGATTGC	ATGCACGCAC	CACCAAGCCG	GGCTTTTTGT	TTTTATTTTT	TGTGGAGACA
118681	GTCACACCAT	GTTGTCCAAG	CTGGTCTAGA	AATGGCCTCA	AGTGATCATC	GACCTCCCAA
118741	AGTGTGGGA	TTACGGTCAC	TGTGCCCTGG	CTTGATGCA	TAATTGTTTT	GTCTTTTGAT
118801	TAGGGTTATT	AATTTAAAAA	ACAAAGCCTG	GACGCAGTGG	CTCACATCTG	TAATCCCAGC
118861	ACTTTAGGAA	GCCAGATGGG	CAGATTACTT	GAGCTCAGGA	GTTCAAGACC	AGCCTGGGCA
118921	ACATGGTGAA	ATCCCATCTT	GACAAAAAAT	ACAAAAAATT	AGCAAGGCCC	AGTGGCACGC
118981	ACTTATAGTC	CCAGCTACTT	GGGAGGCTGG	GGTGGAAGA	TGACTGGAAC	CTGGGAGGTA
119041	GAGGCTGCAG	TGAGCAGAGA	TCGTGCCACT	GCACCTCAAG	CTAGGTGACA	GAATGAGACC
119101	CAGTCTCAAA	ACAAAAATAA	TAAAAATTTT	TTACAACGAT	GTTATATACA	CTTCTGCATG
119161	TTGCTTTTTCT	CTTAACCAAA	CTTTTCTAAA	ACCCTGTCAT	GAAAAAAGAA	ATCCTTCACA
119221	TGGAATAGCA	TAAGTTATTC	ATCCATTTCT	TATTGATAAG	CATTGATGTT	TCCAGTTACC
119281	ACTGCTGAAC	ATGGTGCAAT	TGAATAGAAT	TCCAGGGCTG	AGATTGCTAG	GTTTTAGGTT
119341	GTATTTTATT	ATTTTATTTA	TTTATTTATT	TATTTAGACA	GAGTCTTACT	CTGTCACCCA
119401	TGGTGGAGTA	CAGTGCCATG	ACCTCAGTTG	CAACCTTTGC	CTCCTGAGTT	CAAGCGATTC
119461	TCATGCCTCT	GGTCTCCCGA	GTAGCTGGGA	TTACAGGCAC	CTGCCACCAG	GCCTGGCTAA
119521	TTTTTGTATT	TTTAGGAGAG	ATGGGGTTTC	ACCATGTTGG	CCAGACTGGT	CTCAAACCTC
119581	TGGCCTCAAG	TGATCTGGCC	ACCTCGGCCT	CCCGAAGTGC	TGGGATTACA	GGTGTGAGCC
119641	ATGGCGCCAG	ACCTGGACTT	TGTCTTCTGT	TTCATCAGTC	CTTCTGTTGG	TTCAAGCACA
119701	GTATCACACT	GAAGACTGAT	GATTCTATAT	AAATATGGTA	AAGACTGTAC	ACCCTAACTG
119761	TTCTTATTTT	TTAATTTTAA	GGCAATTTTA	GATTCCAGCT	TTCCAAAGAA	TTGTGGAATG
119821	CTTAGAGCTA	GAGAAGCCTT	GGAAAGTCATT	TAGTTTTTGT	TTTGTGAGAG	AAAATCTCTG

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119881 AGAGACTCTG TCCTGCTCTC ACTGAATACC ATCCCATAGT ACCCCCCAAC AGCTTTAAAG
119941 GGCAATAATA CCTTATGGAC AGTATGCTTT TCCTCAAATA TATTCTAAGC CATGGTCAAT
120001 GCAAAAGAGT GAGAAGGAAA GTAGAATAAG TTATCTAAGA ATCAGTGGGT GCTCTCTTTA
120061 AACTGATTTA TCACTCCCCC TTCCAAACTC TCTTGAAGGT CACTCTGCCT CCCTTTCTAC
120121 ATAAGAACTC CTAACCTCAA GGGAGGAAGG TAAGTTATTC TTATTCCTTG CTTAGAAAAA
120181 GAGAAAATAG GTTTGGTAAG CATCCGCTTT CTGCTACCAT TCTCTGTGTT TCTGTGTTTT
120241 TTATAGGATC ATTCAATTAT TGGTTGGCTC TTGAGAGGGA ATGCAAGGTT CAAGGACACA
120301 AGCCTAGATC TTGCCTGTAT AGAACCTCAT GATGTTATGC TTCTCTAAAA TGAGGCCTGG
120361 AGGAGACATG TTGAAAGTGA CCCATAAATC TGCAGTATCT CATGTCTCTC AATGGGGACA
120421 AGGAGTACCA TGGGAAATAG CATTAGGTCA ATGACAGTAA CAACTCCCAG GTGAGTTGAT
120481 TTATTCTTTT ATTTATAAAG TTGTTAATAT GCTACATAGT CCCTAATTTT GCCACAAATA
120541 GTCATTATTT TAATTTTCATA TTTCACTATT GATAAATGAA GGAAAAAATG AGTAGCAGTT
120601 AAGCAGTCCA TAAACCTACA TATAAAGCAA ATTGGAGATT TTAATAATTGA TTCTGGATGC
120661 TTAAATCCTT TCTCATTGAA AAAAAATTTC GTATTAGAAG ATTTCAACAT TCTTTAAACT
120721 GAGAAGCATA ACATATAAAC AGAAAACCA AGCAAAACAA AAATGCAAAG CTCAATAAAT
120781 GAACACAAAG TGAACACCAT AATAATTGCC ACACAAGTAA AAAACAGAA AATCAGCCAA
120841 CCCTCCCGA GCGCCTGAT GCTTGCTTCC AGTCACATTA TCACTCCATC TGCCCTAAAC
120901 ATAACCCCTA TTTTGATTTT CAATGCTGTA ATTTAGTATG CCTGTTTTTG AAACATATAA
120961 AATGGAAATA AAACAAATGT AATCCTATGT ACCTGACATA TTCACTCCA GAACATTAGG
121021 TTTGAATAGA TTCATCTGTG TTGCTGTGTA TAACTTTAAT TCATTTTTAT TGTTATGTAA
121081 TATTCCATGT TATGAGTGCA ACAATTAGG TGTCTACTGT TGATGCATAT TTGCTTCCCT
121141 TTTTCAGCTA ATATAAACAA TACCGTGAAT ATTCTGTGT ATGTGTCTTG GTATATATAG
121201 GTTATCATAT TTTGTTTGTA TACCTAGGAG AGGAATTGTT GGGTCAAATG CTAAACTCTT
121261 TTTGAAAGTG GTGATATTAG GTTTACATGC GATGAAATGA AAATTAATAAC CACAGTTATA
121321 AACAGCATGG ATGAACCTCA CAAACCTAAT GTTGATGGAA TCTAGCTGGG AATTCTGTGT
121381 CTTCCATATA CTTCCCAATA TTTTTTTCCA ATTAAAATTG TTAATCTTTT GAAGATGTTA
121441 TCCATTGTGG CAGATGTGCA GTATTATCTC ATTATGGTTT TATTTTACAT CTTTTGCCCA
121501 TTTTTTCTTA ATTGGATTGT ATATCAGTCG ACTTGGGCTG CCATAACAAA AATACTAGAC
121561 TAGGTAGCTT GAACAAAAGG AGTTTATTAC CTCACAGTTC TAAAGGCCAG GCCAGAAATC
121621 CTAAATTGAG GTGCCAAGAG ATTCAAGTTT TAGTGAGGGC TCTCTTATTG ACCTGAAGAT
121681 AGTTGCTGTC TTAGATTGTT TGGTGCTGAA CAGAATACCA GAGACCAAT AATTTATAAA
121741 GAATACAGAT TTATTTCTTA CAATTCTGGT GGCTATAAAG CCTATGGTCG AGGGGCCCCAC
121801 CTCTGGCAAG GGCCTTCTTA CTGTTATGGC AGATGTGAGA TGTCATCTCA TATTCAAACC
121861 ACAGCAGTCG CCTTTTGTGT CCTCATGTGG CCTCTTCATA TGCCCATAAA ATGACCTCAT
121921 GTCTCTTCACT TTTCTTATAA GGACACCAGA TCTATCAGAC TACTGGCCTA CTCTTATGAC
121981 CTCATTAACT CTTAAATATC TCCATAAAGT CCAAAAATCC CTATCTCCAA ATATAGGCAC
122041 ATTGGGTGTT AGAGTTTCAA CATCAATTTT GGGGGAACAC AATTTAGGCC AAAAAGATTG
122101 TGTTTTTTCT TGTTGGTTTA AGATAGCTGT CTTTTTGTCC TTTTGTCTCT TTCTTTTTTT
122161 TTGAGGTGGA CTCTTGCTGT GTCACCCGGG TTGGAGTGCA GTGGCGCTGT CTCAGCTCAC
122221 TGCAACCTCC ACCTCCTGGG TTCAAGAAAT TCTCCTCCTC CCAAGTAGCT GGGACTACAG
122281 GTGCATACCA CCGCGCCCTG CTAATTTTTG TATTTTGTAT AGAGACGGGG TTTCACCATG
122341 TTGGCCAGGC TGGTCTCAAA CTCCTGACCT CAGGTGATCC ACCTGCCTCG GCCTCCCCAA
122401 ATGCTGAGAT TACAGGTGTG AGCCACCAAA CCTGGCCTGT CTTTTCTGTT TTAAGTTTTT
122461 AAATTTTGCT CACGAACCCT TTATCCATTT TATGTGTTGC AGGTATTTCC TCTGTAACTT
122521 GTCTTCACTC TGTCAGAGGC TGGAGTGCA TGGCACAATC ACAGCTCACT GCAGCCTCCA
122581 CCTCCCAGGA TCAAGCGATC CTCCCATCTT ATCCTCCTTA GTAGGTGGGA CTACATGTGC
122641 AGGCCACCAT GCCCAGCTAA TCTTTGTATT TTTTGTAGA GATGGTGCTG TTGCCCCAAGT
122701 TGGTCTCAAA CTCCTGAGCT CAAGCAATCC ATCAACCTTG GCCTCCCCAA GTGTTGGGAC
122761 TAGAGGTGTG AGCCACCCT GCACCCAGCC AATGATATCT CATGATGCAT TAAAGTCATT
122821 AATTTAGTGT ACTCAAATTA AGCACACTGC CTTTTATGC ACAACCTTTT TTGTATCTTA
122881 TTTAAAAAAT CATTTTCTAT TTCAAGGTCA TGAAGATCTT ATTTTATAAT ACCTTCTTGT
122941 GAAATTAGTT CTCAAGACTA CCCTCACTTC TAACACCAAT TATAAGTTGG GAGGTCTGTG
123001 GTTCCCAATC AACCTTAGGT TAGTAATTTG CTAAAAGGAC TCACAGAACT TGCTGAAGCT
123061 GTTAGCCTCA TGTTACAAT TTATTATAGG ATATATAGCT TATTATGTCA TTCCAATGCA

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123121	ATGTAAAATT	ATACAACTAC	TTTTAAAAAG	ATTTTAGCAT	TTGACCCAAC	AATTTCACTC
123181	TGAGGTATAC	AAACAGCAGA	TATGTGTGCA	CATATATACC	AAGACACATA	CACAGCAAAA
123241	TTCATTGTTT	GTAATAGTTG	AAAAGGGGAA	ACAACTCAAG	GAATAAAGAT	TAAAATCAGC
123301	TGAGAAAAGA	AACACACAAG	GCAGTATTAT	GGATCGAATT	GTATGCAGAT	CTCCCTTGCC
123361	CCCAGAAGAT	ATGTTTAAAG	TCCCAACTCC	CAGTACCTCA	GAATTGTGGC	CTTATTTGGA
123421	AATAGGATAG	TTGCAGATAT	AATTAGTTAA	GATGAGGTTA	TAGTACAGTA	TGATGGGCTG
123481	GTGACTTAGA	AGAAGTAGTA	TATATATATT	TTTTAATAGA	ACTAGTATTC	TTCTAAGGTG
123541	GTCACGTGAA	GACAGACACA	CACAGGCAGA	GACTGAGGTT	ATGCAGCTGC	AGGTCAAGGA
123601	ATGTCAAAGG	TTGCCAGCAA	GTACGAGAAG	CTAGGAAGAG	TCAAGGAAGG	ATTTTCCTAC
123661	AGGCTTCAGT	GGAAGCATAG	ATCTAATGAT	ACCTTCATGT	CAGATTTCTA	GCTTCCAGAA
123721	CTACAAGAGA	ATATATTTGT	TGTTTTAAGC	CACCCTAGCT	TCTAGCTCTT	TGTTACAGCA
123781	GCCCTAGGAA	ACTAATATAG	GCACAATCCA	GGCAAGTTCC	AAATATGAGC	TTCCAGTTGT
123841	CCTCTCCAG	TAATATGAAC	AGTATTACTT	TCCCAGCATT	AATGTGTGAC	AATACACATG
123901	ACGTACAGAG	CAGTCCCCAC	TTATGCACAA	AACATATGTT	CCAGGACCTC	CAGTGGATGT
123961	CTGAAACCAT	GGATAGTACT	GAACCTCTATA	TAGCTGTTTT	TTCTTATACA	GACACAGCTA
124021	TGATAAGGCT	TAATTTATAA	ATTAGGCACA	GTAAGAGATT	AATAACAATA	AATTAGAATA
124081	ATTGTTAAGA	ATATACTGTA	TAAAAGTTAG	GTGAATGTTT	ATTTCTGAAA	TTTACCGTTT
124141	ATTATTTTTG	GACTGCAGTA	GACCACAGGA	ACTAAAACCA	TGTAGAAACC	GTATACAAGA
124201	GAACCTGTATT	TCACCCGAGC	CTCAGTGTGC	AGTTTTAATG	GCCTGCCATG	GTTGACTGCT
124261	CACATGGCCG	ATCTTTTAGT	CTACCTCCAC	AGGTAGAGCT	GATACTGTGT	GGCTCAAAGT
124321	TCCTATTATA	AATCACATTG	TTGACTGTGT	GGTGGTCAAA	ACCTCCAGGT	AAACAAAGAC
124381	ACACTTATCA	GTGAGAACAT	TTCAAGGGTC	TAAAATTCAT	CTCCCAGTAG	CTGAGGGCAA
124441	AGGCTAGACC	TCTTTTTGGG	TAAGATAAAT	TTTTTACCAT	ATACTTTATT	TTGCTTTTCA
124501	TGTTTAACTT	TATTTTGCTT	TTCATGTTAG	TTCCCCTGGA	ATTGTTTTTT	GTGTATAGTG
124561	TGAAGTAGGG	GGTCAAGTTT	CTTTTTTTTT	CCTTTTTGTT	CTTTTTCTGT	TTAAAAGGCT
124621	ATACAATTGT	CCCATGCCAT	TTATTTACAA	GAGTCCTTTC	ACCATTGTTG	TATGGTGCCA
124681	CTTTAGATGT	AAATCAATGT	CCATATTTGT	TTGAGCCTGT	TCCATTCTGT	TGTCTATTTT
124741	TGGACAACAC	TGCCCTGATT	ATTGTCATTT	TATCAGTTTT	GATATTTAAT	AAAGCAACAG
124801	ATTTGTTTAT	TTTGGGCCCT	TGGATTTGTG	TATTAAATTT	GAACCCTGTT	TGTCAATTTT
124861	TATAATAAAG	CTTATTGGGA	ATCTGATTAG	GATTACAATG	GTTTTGTAGA	TCAGTTTGGG
124921	GACAATTAAT	ACCTTTAAAA	TATTGACCGC	TTCAACTGTA	AATATACTCC	TCCATTATTT
124981	AGTTTTCTCTG	TTTAATTTAT	CTGAGTAATA	CATTATAGTT	TTCTTCGTAG	AAGTCAGATA
125041	CGTAGAAAAT	TCAAAGCCCA	AGTGCAATAG	CTCATGTCTG	TAATACCAGC	ACTTTGGGAG
125101	GCCGATGTGG	GTGGATCACC	TGAGGTCAGG	AGTTTGAGAC	CAGACTGGCC	AACATGGTGA
125161	AACCTCATCT	CTAGTAAAAA	TACAAAAAAT	AGCTGGGTGT	GGTGGCGGGC	ACCTGTAATC
125221	CCAGCTAATC	AGGAGACTGA	GGCAGGAGAA	TCGCTTGAAC	CCAGGAGGCA	GAGGTTGCAG
125281	TGAGCCAAGT	TCCTGTCACT	GCACCCACAC	CTGGGCGACA	GAGCGAGACT	TCGTCTCAAA
125341	AAAACAAAAA	AAAGAACATT	CAAATAATCA	ATGTAGATAA	TTCAAATAAC	TAAAAAATGA
125401	ACAGTTATTA	AAATATCAGG	ATATAAAAAG	AAAAAAATCA	ATAACCTCCA	TATATACAAA
125461	ATGGCCAGTT	AGAGAAAAAA	AAAAGAATAG	GCGAGACTTA	AAAAGGCTGG	GAATCTCCCT
125521	GAAAATCTTT	GAGAGCCTTG	GCCCTGCCCT	CAGGGATTTC	TCTGGCTTCA	TGCCCAGATA
125581	CGGGTACAGT	TCCTTGTTTA	AAAAAATTTT	GCTCCATCAA	TCAACAAGGG	GCTCCTTCCT
125641	CAGAGCACAA	GGACCTCCAT	AACACCGGAC	ACTAGATGTC	TAAGGGACAC	CTCTTAAGGA
125701	AGTTAGACTT	CCAAAGAATG	GTGTTTCCTC	TGTCCCCAAA	CTCTGGAAC	CACAGCACAA
125761	CTGCTCCTTG	GAGTTCGGTT	TCAAATCTAC	AAGGCTGTCA	TGGAGGTTGC	AGACCAAGTC
125821	CGTGGCCTCA	GTGTCCGGAT	GTACGGTGCC	CTTGGCACCT	GAATGTGAGA	ACATGACCTC
125881	CCTGAAACCA	CCACAAGTAT	TGTTTTCATGT	TATGTATGTT	TTTTCTTATC	TGAAATTCCT
125941	TTTCTTTAAA	AATTCAAATT	ACATATTTTG	CAAGCCCTTG	AACAAGCTTC	ATGAGCATTT
126001	ATTGAACCCA	CAGCTTTTAA	AACCTACTGA	ACACTTTGCT	CTATGTTGTC	ATTCACTATC
126061	CACCAATTAT	TTAATTATTG	ATCAATATTG	TTTCCTTAGT	GTTGGGATCA	TTTATGCATG
126121	TATTTCTTTT	ATATTGCATA	TTTTATATTT	CTGCATTACA	GTTATTACAT	ATTACTTTTG
126181	CTACAGTAAT	AGTTCAAAAAG	TGTACATCCA	AAATTTAGCT	GTGAAGTGGA	TGGACTGAGG
126241	CAGAACTGGA	GGCAAGAAAA	TGTCACAGTA	ATTCTAAAAA	AGATGATGTA	CAATTAGAGC
126301	AAGAGAGTAG	CACTGAAATT	GAAGAAAAAT	AGATGCGTTT	GAGAGAAAAA	TAGGAGGTAG

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126361	AATCAACAGA	TTAGATGTAG	GGATGAGAAG	GGTCAAAGAT	GACACTAGGG	TTTTTAACTG
126421	GAGCAAGTAG	GTAGACAGAA	CATTTCTTCC	TGAAAGGGCA	GGTCAGATCA	TGTGTTGTCT
126481	CAAAGGGCAT	GAAGAGTAGA	AAGCCTGGGA	CAGATCCTGA	GATGACCAAT	ACCCATGGTG
126541	CAGGGAGAGG	GAGGGAGATC	TGCTAAAAAG	ACTGCAAATG	TCAGGATAGT	AGAAAAATCAT
126601	GAGTGTGTGA	TGTCCTGGAA	GTTGAGACAG	TATCACATTT	GAGAACATTT	AAATTGGTAA
126661	CTCTGACAAA	AAGCTGGAGG	CCAAGTGTGA	ATGCCCATGA	GAGTGAGAAG	CTCCACACT
126721	TTTGTGGGCA	TCAGAAAGCC	CACCAGGTTT	CTGCAGTGAA	GATCTGAGAA	GGATCCTCTT
126781	GTGGCTTTGG	CAGGGAGAGA	AGAATTATTA	TGAAATACAC	CCCAGAACCT	TCTTCAAAAC
126841	AAAGGCCTAC	TCTCAAGGGG	AAAACATTTT	GCCAGAGTCT	TATCCCAGCT	GGGAGAAGGT
126901	AATTCTTCCC	ACTGCAGCCT	CATCTAGGCT	TTCTGTCTCA	CTTAAGGGAA	GAAAATTAGT
126961	CAACAGGGAT	CAGAGCTTCA	TGAAAATAAA	TTGGAAATGG	TGCAGCCAGG	AAAGGAGCAA
127021	AGGTCTGAGG	AGGAGGAGAA	GGAGGAAGAG	GAGTTGTATC	ATTATAAATA	CTTGAGGAAG
127081	AGGAGGAGAA	GGAGGAGGAG	GAGGAGTTGT	ATCATTATAA	ACACTTGAGG	AAGAGGAGGA
127141	GGAGAAGGAG	GAGGAGGAGT	TGTATCATT	TAAACACTTG	AGGAAGAGGA	GGAGGAGAAG
127201	GAGGAGGAGG	AGGAGTTGTA	TCATTATAAA	CACCTGTGAC	GGTCCCAGCC	CCAAGATATA
127261	GGCATGCTAA	TAACTGAGG	CTTAACACTT	TGACTACAGA	ATGCTGCTTC	TCCCTAACAC
127321	CATCAAGGCT	CCAAGTGAAT	AACAATGAAT	TATGAATGAA	AGAGCTGTAA	GGAGAGACAA
127381	AAGTTAGAA	GAGACAAGTA	TTGTTATCTA	GAGATGCCAA	GAAGGCAAGG	AAGAGACTAA
127441	AAAAGGCCT	CTGGATTTAG	AAATAGGAAG	TCATTAGTGA	CCTTGTAAT	AATGGAGCCA
127501	GAGGAATACC	AAGGGCAGAA	GCCTCACTAT	AGTGTGTTGC	ACCTGTCAGA	GGTCAGGAGG
127561	TGTAAGTAC	TCTCCACAG	TGTGGCTTTG	GAAGAGAGAA	GTCAGCAGCT	GCATGGAGAT
127621	TTGGGAGAGG	GAAAGCTTTT	TTTTTTTTTT	TTTAATTGGA	AAAGACTGAG	CTATGTGTAA
127681	ATAGAATAAG	ACAGGAAGAG	TGTAGACACA	GGAAAGAGGG	CAGACAAAAA	CAAGTGCACA
127741	GTTATCTAAG	GGAAACAATG	GGATCAAGCT	GCAAGTATAT	AAACTTGTCT	TGATAGAAGA
127801	ATCCTTGATC	TGGTTTATTC	AGTGTTTGGT	CCAAACCCAC	ATCCCTGTTC	TGCCTGTCTC
127861	TGACTTGCTC	TGTGCCCCAG	AAGCCCAGT	TCTACAGATA	GCATTAGCTG	GGCAGCCCTG
127921	CCCTCTTGCA	ACAGCTGGAT	TTGGCCAGTG	ATCAGCCCAG	CAGGAATGTA	GATGGCAAAG
127981	GAGAGAGAGG	TTAGTGTACT	TATTCCTGCT	ATCACCCCCC	TGCTTGGTGG	GCAGCTCTTC
128041	CTCCACAGTC	CCAGCTCTGG	CCTAGCTCTG	GTTACAGGTT	CCCTCCCAT	CCCTCTTCAG
128101	ATTTAAAGGT	GTGTCTGTCA	GGGTATAACT	GGGAGCTAGA	AATTGCACTG	AAATTGAACA
128161	AAGAATTTTA	TGGGAATGGT	TGTTAAGTAG	TTATAAGAGG	ACTGAAAATG	GAAAAGTGGA
128221	CAAACGTATC	AGAGATAGTA	ATGACAGAAA	GCAACTACCA	CCTCCAGGTT	TAGGAGAACA
128281	AGGAAAAGAT	TCTTTGAAGA	GATCCCCAGA	ACTGGGACCT	CTGAGGAGTG	TATGCTGGAC
128341	CACTGATGAT	GATATGTCTG	TAGATAGAGG	CATGATGAGG	CTGATTTTAG	GAGCATGGAA
128401	GATCTCCAAA	CTGAAGCCAA	CTGCTGTTAC	TGGATTCAAC	TGCCACTGCC	AGGTTGAAGA
128461	ACCCATTCTG	TGAGGATGTC	AACAAACAAA	GTGGGAAATC	TTTTACATC	CTTCCAGCCC
128521	TCTAGTCTTC	CTCCAGTGCT	TTCTATTGGT	AGGGTTTGGG	GAGGTGGCTA	GCAAAGCGGT
128581	ATTGGAAAAG	ATAGAAGAGA	CTAAATCTTC	ATAACCAGCA	CAGGGTGACA	CTGGATCACT
128641	ACTGTTGCTG	ATCTTGGGCT	GCCTCATATC	CCCTGTTCTT	CCCATTAGCC	CTGTCACAAC
128701	TTTGTAGATA	TCCCTTCATT	ATATGCCCTT	CATATATTCT	TTTGGTTTAA	CTTTTTCTGT
128761	TGGAATCCTA	ATATGGCACT	CCTCCATTTT	TCAGGACCAA	AAGAGTATAA	AAGATTATCT
128821	TTTACCAAAA	AAAAGACAAA	AAACTGATCT	AATTCCCTGAT	TTGATCATTA	CACAATCTAT
128881	ACATGTATCA	AAATATCACA	TAGTACCCCA	TAAATATATA	CAACTGTGTC	CATTAAAAAT
128941	AAAAATTAAA	GAAAAGATGG	TAAATATAGC	TCTGTCAGGC	AGTGGAGGTT	TTACCACGAT
129001	GGCTGTTATT	TCCCCCATGA	AGGGGGGAGT	GAGGGAGCAG	CTGAAAGTAG	GTGCTTATAG
129061	GGGTATAGAG	GGGCTCAAAG	CTTTGAGAGA	GGAGAATGTC	TGAAAGAGCT	GCCAAATAGC
129121	ATGCAGGTCC	CATGGGGGCA	GAGCCTCTGC	TCATTACCA	GTGCCTCTTC	AATATCTACA
129181	CTTAAGCCTA	ACACAAAGTG	TGTGCTTAAT	AAGTATTTGC	TGAGTATGTA	AAGTGGAAC
129241	AGAACCAATC	TGGCAAACCT	TGTAGGACTG	GTGGGCAATG	AAGATCAGTC	AGGTAAAATC
129301	TGTGGATATA	AATTTATATT	GATCAAAAAA	TTCAAGGTTA	GGTGTTTTTT	TTCAAGTATG
129361	CTCAACGATG	CTTCAGCCAT	GCTCAACTCT	TCTGTAGCCA	CAGAAAAAAG	TTTACCCATA
129421	ATCGAGCTGT	GTCTGTGTCT	GAATAATGAA	AAGACCATGA	TGCAAGGGAG	TTGGAGACAC
129481	AGAAACAGTG	TTTGAAGTAA	TGGGTAATGG	AAGCATGCTA	CCAGGGAAAG	GAAAGAAGTG
129541	GCAATAGGAA	GGAACAGAGA	TCTGTGGTCC	TATGTCCCCT	GAGCATATTC	ACATGTTAAA

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129601	GCTAATTCAG	TTTTCAATCA	TCATTAAAAAT	TTTGTTCCCTA	AATATATGGC	CATTATTTTC
129661	CACAACCACA	CTAAAACTTT	ATTACCTCTG	GCAAGTGACT	ATGCAAGTAA	CTAAGAGCAA
129721	AAATATCCAC	AACTACCATT	TGAGCTATCA	ATTTAGGGAA	AGTCATCTGG	CTATAATCTA
129781	AGTGACCCTC	CACTGAATGT	CAGTATCTTT	GCATATGTGA	TTTAAATCTG	GGCCTTCGCA
129841	ACACCATGAA	CTGTTCTTGT	CTTGAATATC	CAGATTGAAG	GAAATAATCT	GAGTAGTTAC
129901	GAGTCCTGAA	GCTAGAAAAG	TGGAAACCCC	ATTTGCTCAT	CAGAAAGCCT	TAGAGCTTGG
129961	GCGCTGGCGG	GTCTGTCTC	ACCGGGACAG	AGGGGCTCTT	TCCTCCCCAT	CTGATAGTCT
130021	GATAACTAGA	GAAGCCGGCC	AACCTATTCT	CCAAGAAGGA	GCCATCTTAG	TTCTCCTGA
130081	AATGTTTCATA	TTTAGAAATT	ATTGTTTGTC	AGTAATTTAA	CCCCTTAATG	GGCTTGCCTT
130141	GTGGTCCATA	CCACTGAGTG	CAGAGCTTGC	CTGGAAGAAT	TGTGAGGGCC	ATTCCATCTT
130201	CCAGGCAGTA	GAGTTCAGTA	CTTCTTTAAA	ATTGCTGCTG	AACTCTGTAT	TTGAAAAGAA
130261	AGAATCATTT	GGGTGTGGTA	GCTCACACCT	GTAATCCTAG	CGCTTTGGGA	GGCTGAGGTG
130321	GGAGGATCAT	TTGATGCCAG	GAGGACCACT	TGAGACCACC	CTGGGTAAAC	TAGCAAGACC
130381	CTGTCTTTAG	AAAAAAAAAA	TACAATAAAA	TAAATACAAT	AAAAATAAAA	GCAAAAAGAA
130441	AGAGTCCATC	TTAGGGACAG	ACTGTAACCTA	CTCACTGGAG	CTTACCTTTA	CATAGTTCAG
130501	GATCAATTAT	AATAAAACAC	TTTGTGTCAG	ATTCAATAGG	ATTATTTTAA	TCCCCATCAT
130561	CTCTCTGAGT	TTCCAGTCAG	TTTCTCTGCA	TGTAGACACC	CTTCTCCAGC	CCACCATTGT
130621	CTCTCCTCCT	ATAGCTCCAC	CAACAAATCA	GAACCTTTTC	TAAGTGCACC	TAGTGCACCT
130681	AGAGTCTACT	CCAGAATGCT	CATGGAGAAA	GTTTCTGAAA	GGTAAACTC	TGAATGATAT
130741	TTGTAGCTAA	AGGGAGACTT	GCTAGAGACA	ATAAGCTAAT	AGTTGTAGAC	TTCAAGTAGAA
130801	GAGGAATGAC	ACTGCAATGT	CAGGGTGCAG	GACTTCAAGA	GGGCAGAGTA	TGGAAACCCA
130861	ATGGGAAAAA	TGCTCACCAG	GAACATGAAG	AGAAGGAATT	ACGTGTAAGG	ATTTCTCAAT
130921	GTGTTCCCAA	ATTTGCCCAG	CAGAGGGAGG	CCTCGGGTTG	ATGGCAGGCT	GATGCACAAA
130981	TTAAAGAAGG	CTGAACCTGG	GGGCTTTTAA	CAACCATCGT	GGGCTCTACT	GTAAGCATTT
131041	AGAAAAAGAA	AGTTATCCAT	TCAAAAATAT	ATATATTTTT	AAACTTCAGA	ACAAAATTAT
131101	GAAGAGCTAT	ATTTACTTTT	CTACATTCTA	ATTTTTATAA	ATCTGAGTAT	ATTTTGCATA
131161	TATTGTTATA	GTACATATTC	AATTTTGTAT	TTTGCTGTTT	TCACTTAACC	ATTTTACTA
131221	GATTACTCTG	TGTTTCATAAT	AATCACTTTT	TTAAAACTTT	TATTTTTATT	TATTTATTTT
131281	TTTTTTGAGT	CAGAGTCACA	CTCTGTCCGC	CAGGCTGGAG	TGCAGTGGCG	TGATCTTGGC
131341	TTACTGCAAC	TTCCACCTCC	TGGATTCAAG	CAGTCTCCT	GCCTTAGCCT	CCTGAGCAGC
131401	TGGGATTACA	GGTGTGCACC	ACCAAGCCCG	GCTAATTTTT	GTATTTTTAG	TAAAGACGGG
131461	GTTTCACCAT	GTTGGTCAGG	CTGGTCTCCA	ACTCCTGACC	TCATGATCTG	CCCACCTTGG
131521	CCTCCCAAAG	TGCTGGGATA	ATCACTTTTT	ATGCTGCATA	ATTCTTCAGA	TTTGTACAGTA
131581	CGACTGTATT	TACACTCATT	TGTTTTTATA	GAAAGAATTTC	CAGAATATTT	TGGCTGCCCT
131641	AATTAATTTT	ACAATTAATA	TGATTTTGAA	ATTGGGTATT	GGCTCCTTCT	GAATTGGTTT
131701	ATTAAAATAT	ATTCTAATGT	AATTTATGAC	ATTTTCATCA	TATTAGCATA	TTTATCTGTG
131761	TAGAATTTCA	TAATTTATAA	AGCTACAAAC	TGTATGTGAT	ATAGCTTGTA	ACTTTATCTC
131821	ATAACTTTAT	GCAGTTACAA	GTAGAAATAA	AATGTTCCCC	TCAAGATTGC	TTAAAATTTT
131881	ATTATAAACA	AGTGTAAGAA	ACAAAATCAC	TAAAACACTC	CCTCTTTTTT	CCCCCAAAT
131941	GCATGTTTCC	ATTTTAACAG	AACCCGTATT	TAATCAGCAG	ATTTCTATGG	TGGCTAGATT
132001	TGTAGACTAA	ATATTAAGAG	TCCCAAAGCA	AATGCATTTT	TCTCTTAAAT	TTTACTGACT
132061	TTTTTTTTTT	TTCTTTTTCT	GAGACGGAGT	CTTGCTCTGT	CGCCCAGGCT	GGAATGCAGT
132121	GGCACAATCT	CGGCTCACTG	CAACCTCCGC	CTCCCGGATT	CACGCCATTG	TCCTGCCTCA
132181	ACCTCCCGAG	TAGCTGGGAC	CACAGGCGCC	CGCCACCACG	CCCAGCTAAT	TTTTTGTATT
132241	TTTAGTAGAG	ACAGGGTTTC	ACCGTGTTAG	CCGGGATGGT	CTCGATCTCC	TGACCTCATG
132301	ATCTGCCAC	CTCAGCCTCC	CAAGTGCTA	GGATCACAGG	CATGAGCCAC	CGCGCCCCGC
132361	CTACTGACTT	TTATCCAAAG	AAAATATAAG	AGTCTTTCAT	CATAACGTAT	GTTTCTTGCT
132421	CTTGTTATTA	AATATGACAC	ATTTAGACTT	AAACTGATTT	GAAGGTTTAT	GACATTGTTT
132481	AAGTTATTAC	ATAATTAATT	CATAAAGATA	ATGACTAGTT	TGAAGTACTG	ACAGCTCACA
132541	CATCATCAGT	TGAACAGCAG	AAAGCTTACT	AAGCTACTTT	CTTATGTTTC	TGTCTCCAG
132601	CTACTAAAAG	AAACGAAACC	CTTCCAGGTG	TTAAGGCAAA	ACTTTCCTCC	CCCTTCTTTC
132661	TATAAATCTG	ATTCCATGTT	AGTGAAATTT	CTACTGATGG	CTTTGGTTTC	CTCTATAGTA
132721	GAATAGAGAT	CCTATGGCAA	AAGTCATGTC	TGACATGGTA	GCAAATAGAA	ATGGGGAAAA
132781	GGAAGGTCTG	CAAGAGCCAA	TGTGGGAAAT	GGGGAGAGGA	CTGACTACAA	AAACCCAGCA

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136081	CATGACCAAG	GTATTATGAG	ATTCTGGAAT	TTCCCCAAAC	CACATTGATT	GCTGGGAGAA
136141	TAGAAGAAGT	GGATTACAAG	TGGAACCTAG	AAGGGGAGTA	TTCGAGAAGA	CGTCTCTGCA
136201	AATCCATTTA	GAGAGACCTT	TCTCCAGTGG	TGACTCAAAG	ATGCAGCTCC	TTTCATCCTG
136261	TGGCTTGGCC	ATCTTCAGCA	CATGGCTCCC	AAGGATGTCC	TCAGGATGGT	CTCTAATCCA
136321	AGGAGCCTGA	AGAGAAAAAA	AGGCATGGAG	TATTGTGAGT	GGTAGGTGGT	TATGGACCAG
136381	TTATGGAAGA	ATACACATCA	CTTTTGCCCA	CCTTCTACTA	ACCAGAACTC	ACACAGCCAT
136441	AGACACTGAC	AAGTAGGACT	TAACAAGAAT	CTAATTTTGA	GTCTAGGAAT	ACGACTGTAG
136501	CAAAATATTTA	ACAGCTTCAA	ACACAGGTGC	ATTGCTATCA	CTATGCTTGG	CCCAGGCCCTG
136561	TCTCCCTTTC	CTGCCATGTC	ACAGGGGCCA	GCATTTATGT	CTAGATTGGG	TTGGTTGGGA
136621	TATTAAGACA	ATAATGAACC	AATACAACAT	CTTGAGCATA	AAACCAACTG	ATACATAATG
136681	GTACAAGTCA	GATGATTCTG	ATGATTATGA	ATTATGTCAA	TAAAAGAAAT	GTGATAACTA
136741	AGGTAATTTT	TGTTTTGGCA	AATTTTTGTT	TGTTTCATGAC	AGGATGAAAT	CCTGTCATTT
136801	GTAGCAACAT	GGATGGAATT	GCAGGATACT	ACATTAAGTG	AAATAAGCCA	GAAACAGAAA
136861	GTTAAACACC	ACATGTTCTC	ACTTATATGC	AGAAGCTAGC	TAATAAGTA	AATAAGTTTA
136921	TCTCATTGAA	GTAAAAAGTA	CAACAGAGAT	TACTAGAGGC	TGGGAATGGT	AGGGGAAAAGA
136981	GATGATAAAG	AGAGATTCGT	TAAAAATAAGT	TACAGCTAGA	TAAGAGCAAT	CAGTTCCTAGT
137041	GTTCTATTTG	TACTACAGAA	TGGCAATAGT	TAACAGTAAT	AAATAATTTT	AAAGAGCTAG
137101	AAAAGAGGAC	ATTGAATGTT	TCCAACACAA	AGAAATGAGA	AATGCTTGAA	ATAATGGATA
137161	TTCTAATTAA	TTACCCTGAT	CTGATCACTA	TACACAGTAT	GTATAAAAAAT	AACACTATGG
137221	GCTGGGCGCA	GTGGCTCACA	CCTGTAATCC	CAGCACTTTG	GGAGGCCAAG	GTAAGCAGAT
137281	CACCTTGAGGT	CAGGAGTTAG	AGACCACTCT	GGCCAACATA	GTGAACTCC	ATCCCTACTA
137341	AAAATACAAA	AATCAGCCAG	GCGTGCTGGC	ATGTGCCTGT	AATCCCAGT	ACTCAGGAGG
137401	CTGAGGCAAG	AGAATTGCTT	GAACCCAGGA	GGCGGAGGTT	GCAGTGAGCC	GAAATCGCGC
137461	CACTGCACTC	CAGCCTGGGT	AACAGAGCAA	GGCTCTGTTT	CAAAAATAAA	TAAATACATA
137521	AATAAATATT	TTTTAAAAAA	AGAACATCAC	TATGCACCCC	ATATATACAT	ATAATTATTA
137581	TGTCAATTTG	AAACATAATT	TTGAAAAATG	AAAAAATGAA	ACACAAATAT	GAATCAATCC
137641	TCTCCAAGTT	GATATACTTA	AAAGGAAAAA	AGTCCGAGGG	CTTAAACTAT	TCAATCAAAA
137701	TTTTATTAAA	ATGCTATAGT	AATCTGGAAT	GTATTTTCAGA	ATGAATTGGT	ATAAGGTTAG
137761	ACACAAAGAT	CAGTGAAACA	AAACAGAGAA	CCCAGAAATA	GATTCACACA	TCTATGGACA
137821	ACTGGTTTTG	ACAAAGGTGT	CAAGGCTATT	TAATAAGTAA	AAAAATCGTC	TTTTTCAGTAA
137881	ATGTTTCTTG	AACAAGTAGA	CATCCGGTGT	GGGGGAGAGG	AGCAGGAGCC	TTACCTCAAA
137941	CTTTATGCAA	AAATTAACCT	AAAATAGACC	ATAGACTTAA	ATGTAAAAGC	TAAAATTATA
138001	AAACTTCTTT	AAAAAATAGG	AGAAAAATCAT	CAACACCCTA	GGATTAGCAA	AGATTTCTTT
138061	AAAACAAAAA	AACAGGTTTA	TAGTTTATAT	AACATAAATA	ACAAAATGAT	AAATTTTCATC
138121	AAAAGTGAAA	ATTTGCTTTT	CAAAAAACAT	TATAAAATGA	AAAGCAGGAG	CGTGAGGCAT
138181	GAGAATCACT	GGAACCCGGG	AGCTACAGGT	TGCAGTGAGC	CAAGATGGTG	CCACTGCACT
138241	CCAGCCTGGG	TGACAAAGTG	AGACTCTTCC	TAAAAAATAA	ATAAATAAAT	AAATAAATAG
138301	AAAAGAAAAA	GAAAAATCAC	AGGCTGAGAG	AAAATATTTA	TAATACATGT	ATCTGACAAA
138361	GGACTCGCAC	CTGGAAAATA	TAAGGAACCT	TATAACTTAG	TAAGATGACA	AGCCAAAAACA
138421	AAGAGTAAAA	GTTTTCAACA	GACATTTTAC	AAAAGAAAAC	ATACAAATGG	CCAGTATGCA
138481	CATGAAAAGA	TTTTTAAACAT	CATTAGTTAC	TAGGGAAATG	CAAGTCAAAA	CCACAATGAG
138541	ATACTTCACA	TTCAACAGAA	TAGCTAATGT	TAAAAGGACT	GACAATCCCC	AGGGTGAGCA
138601	AGGGTGTGGA	GGAAACTACT	CTCATATATT	GTGAATGTAA	GAGGACAATG	TTACAACCTAC
138661	TTTGAAAAAA	GTTTGGCTGT	TTCTAACATA	AAATTAAACA	CTTATACAGC	CCAGCAATAT
138721	TTCTGGGTCA	TTTCTCCAG	ATAAATGAAC	ACATGTCCAT	ACTATGACAT	GTACAAATGT
138781	TCATACTGGC	TTTGTTTCAC	AATGCTATAA	ACTGGAAACA	ACCCACGTGT	CCATCAACAG
138841	GTGAATGGGT	AAATAAATTG	TAATATATCG	GCCAGACGCA	GTGGTTCATG	CCTGTAATCC
138901	CAGAACTTTG	GGAGGCCAAG	ATGTACGGAT	CACCTGAGAT	CAGGAGTTTG	AGACGGCCCC
138961	ATCCAACATG	GTGAAACCCC	ATCTCTACTA	AAAAATTAGC	TGGGCATGGT	ACCAGGGCCC
139021	TGTAATCCCA	GCTACTCGGA	AGGCTGAGGC	AAGAGAATCA	CTTGAACCGA	AGAGGCGGAG
139081	GTTGCAGTGA	GCCAAGACCA	TGCCATTGCA	CTTCAGCCTG	GGCAACAAGA	TGGAAACTCC
139141	ATCTCAAAAA	AAAAAAAAT	TGCAATATAT	CTATATCTTG	GAATATTATA	AAGCAATAAA
139201	AGGGAATAAA	CTACTGATAT	ATACACAAAA	TGGATGAATC	TCAAAAATGT	GAAGGAAAAAT
139261	AAAAAATACA	TATGATATAA	ATTCCATTCA	TATGAAATTT	TAGGAATGGG	AAAACATAAGC

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139321	TGTAATTATG	GAAAGTACAT	CAGTGGCTGC	CTGGGGCCAA	GAGGATGGAA	GAGGCGGCAC
139381	AGGTGATACT	ACAAATGGAA	ACTATCTAGG	TTGACGGAAG	TGTTCTGTAA	CTTGATTACA
139441	GTAAGTAAGT	TTTGGGTATA	TAAAACGCAT	CAAATTGTAT	AATTAATACA	GGTGTATTTT
139501	ACTGTGTATA	AATTATTCCT	CAATAAAGTT	GATTTTTCAT	TAAATATATT	ATTTGCTAAA
139561	ATGAGGAGAG	ACAACTATTA	TCTTAAATA	GTAAAGCACA	ATAAAAATAC	TACAATCAAC
139621	TCATTATATA	TGGAAATTAA	AGGAGAAAAA	TAGTGGTATG	ATTAATTAAA	ATAAAAAGAA
139681	AACCTTCTAA	ATTTTATCTT	AGCTCATAGT	TGTAAAAGCT	GCCATCCCTA	ACCAAGGCCA
139741	CCCTTGACCC	TTTCTCATGT	TCCATCTTTC	TGTTTGTTTC	ATAGTTTATG	TCTCACCAAA
139801	ATCTATCAGA	TAAACGTATT	CATATGAAGA	TTTAAATATA	TTACATGTTA	AGCCTTAGCG
139861	AATACTTCAA	TATCTAAAGA	AGGTACAAAC	AAAAACAAAA	TCAACACTTA	GTTATAAGAG
139921	ATTACATACT	CTCCAGGGAA	GACCTGAAGA	CTAGCCCCCT	TCTGGATCCC	ACTAGCCCCCT
139981	CATCCCACTC	CAAGCCCTCC	CCTCCAATCC	CATATGCACT	GGGCATTCTAT	ACAAATAAGA
140041	CCATCAGCTC	TGGATATCTG	TACTGATTGA	TGCTCCTGCT	AACTACCTGA	ATGATTGCGA
140101	TGTAAGGACA	GCACTGCCTG	AATCCTATTT	ATCTCTCGCT	ATGCCATAGC	GGCCTTCCAT
140161	GCTGATGGCG	TGTTTGAGGA	TCCAGAGGGG	TCTTTGGTTG	GCAGGATTGT	TTTATTTCCC
140221	CAAGAGGAGA	GCCTTGATGC	AAAAATAGGT	GAAGAAATCA	GTACAACAAA	ACAGAAAGCC
140281	TAGAACTAC	TATGAACACA	ATAGAGCAGA	AGTAGCCCTTA	AGAGTTGGTG	GAGAAAGGAT
140341	GGTCTATTCA	ATTACCTGGG	CTGAGAAACT	GGCTTTCATA	TGGAATAAAA	ATAAAATTAT
140401	AGCTATAACC	CATATCATA	ACAAAAGTTT	CTACATCTAA	CAAAGACACA	GATAGAAAAT
140461	GTTTTAAAT	TTTAGAAGAA	AATAGTGCAG	AATTTTAGTG	CAGAATTTCT	TAGACTAGAT
140521	GCAAAAACAA	AAATGATTAA	AGTGGCCAGG	CACGGTGGCT	TATGCCTGTA	ATCTCAGCAC
140581	TCTGGGAGGC	CGAGGTAGGT	GGATTAGTGG	AGGTCATGAT	TTCGAGACCA	GCCTGGACAA
140641	CATAGTGAAA	CCCCATCTCT	ACTAAAATAC	AAAAATTGGT	AGGGTGTGGT	GGCTCACGCT
140701	TTAATCCCA	GCTACTTGGG	AGTCTGAGGC	AGGAGAATCA	CTTGAACCTG	GGAGGCAGAG
140761	GTTGCAGTGA	GGGGAGATGG	CGCCACTGCA	CTCCAGCCTG	AGCAACACAG	CGAGACTCTG
140821	TCTCAAAAAA	ATCTAAAAAT	AAAAAGATTA	TTTTTAAAG	ACTATTTTAA	ACAAAAAAA
140881	TCGTTTAAAT	GATATGACAC	ACTACATCTA	ATATTTGGAA	AAGTACTTCT	TAATACTTTT
140941	AATAAAAAGA	GGCGCTGAGA	GCATACAACC	TATCCTCAGA	AGAGTGTTTG	ACCTCTAGGA
141001	GGGACGCAAG	CGCGTTCTTC	CTTCATTTTA	ACTGGTCATT	TTCATTTATT	TCAGGAACAT
141061	CTGAAGTAAA	CACAGTCACA	CGTTAACCTT	TAAAAATCTA	GGAGGTGCGT	ACGCATAGTT
141121	CCATTACTTC	AATTTTGTGA	CTTTTGCAAT	TTAAAAATATC	ACAGGGAAGC	TCGGTACAGC
141181	TTCAAGGCTA	GGAGGGGTGG	CTCTCTCTTA	AGCCCTGTCC	CCGCCAGCCC	CAGACCTCTC
141241	GTCCCGCCCC	CATTGCCCAG	TCCCCACCTT	CACCTCCCCA	TTTCCCCACT	CCCGCGGTCT
141301	CTTAACGCAC	CTCGTTTTTC	TCCCAGTGGA	CTCAGACCTG	TAGTCTTCCA	CCAGGATCGG
141361	CTCCTTTCCC	GGAGCTCTCG	CTCTTAGAGG	AAATTGAGAG	AAGCATCAGC	GGAGACCCAT
141421	CTGTGGCTCT	CCAGAGGGCG	CGGCATTGAG	ACCCCAGATC	CAGCTGTGAG	AACGGACCCC
141481	AGGCTCACAC	CAGGCCTGCG	GGAGGCGGCC	CACCAGAGGC	GCTAGAAAAC	AAGCCTCGCG
141541	GGGAGGCGCG	CAGGGCGACT	GCAAGCTGTA	GGGGGCGCTG	GCGCCCTCAC	AGGCCAGGGG
141601	CAGGGCCGGC	GCTGCGGGCG	GGGCTCCTGC	GGCGTGAGGG	GCGGCCCCAG	GCCAGCAGCT
141661	GCGCCCTGGC	TGGGAGCCGG	GGAGCATTTG	CTGCTCTGCT	GGACCCTGAG	TCTGGCGGCG
141721	GGCGGCCCTC	TCTCCGCTCC	CCGCCCCCCA	TCCCCCAACT	CCCGATCTCT	CTGCTGCGTC
141781	TGGCCTCAGG	CTGAGACCCC	AACGAATCAT	TCCCCGCATG	GGAACATTTT	ATGATATAAC
141841	TGAATTCAGT	TTTATGTATA	ACTGAATTAC	GGATATGAGA	ATCTCAAATG	AGGACGAATG
141901	GTTTTTACGC	ACAAAACATG	AGACACAAAT	CTGTAAGAAA	TATAAAGTCG	TGACCACGTC
141961	CTTTCAGAAC	TTTAACCTGT	TTGCTGAAGT	ACGTGAGTAA	CAATGGCAGG	GAAAGGGTAT
142021	CTTAAATTTT	ACCACAGCCT	CAAAGAGGCC	ATTTTCGTGA	TCCGCTGAGG	CTTGGAGTCG
142081	GCCTTCTGAC	CACGAGTCCT	CGCGCTATGA	AAGAGGAAGC	CGCGGTTTCA	GGCTTCCTCG
142141	CGAGTCGTGC	AGCCCCCCTT	GCTCCAGCTG	GGGACACCGG	TGGTCACGGC	CGTTTCCAGC
142201	TGCAGATCCA	GGCGGCAGCC	CAAGATTTGG	TCCAGCCGCC	AAGGGGTGGC	TCCAGTGAAT
142261	GACGGGCCCT	GAACGCTCCC	AGGACCCACA	TCTGGAGAGG	GAGGTGGGGG	TGGGGTGCTG
142321	AAGTCATTCT	TGGGGCCCCCT	GGGGGCGGGC	ATGGACCTGG	GTAAGGCCAG	AGAAATTGAC
142381	ACCTCGTGAC	ATCCCTGGAA	GAGAAGTACG	TTCAGTGTCA	CTCCAGAGCT	GAAACCGCCT
142441	TCTGGCTGGT	CCCTCCTCAC	CTACATACTT	TTCTAATTTG	TCTGGAGCAG	GCCGGGCATC
142501	TGTATTATCT	GGTTATTTAA	ATATCTGGTT	ATTTAAAAGC	TCTCCATTAA	ATTCACATAC

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142561	ACGAAAATAA	AAATTAAAAA	AAATTTTAAA	AAAAAGAAAC	AAAAGCTCTC	TAATGACCAA
142621	GTCCTACACG	ATAGTGAATA	AATTTTTTTG	TGTGGTCCCT	AAAATTGAGT	TCATGCCTTT
142681	TCTGAAGTAA	TAGACGCCCA	GAGAAGGGAT	CGACTTACCC	ATCATGCCAC	AGAGATTAAT
142741	TGGCCCCAGA	ATTCTTTAGC	AGACCGTGTA	TATGAACGTC	CTTTGCAATC	ATATAAATTA
142801	ACTGGGAAAA	CCTCATTTAG	TATGTTACAT	GCCTAGCGTT	TTGTGCCTGA	ACACCTTACA
142861	AGAACCAGGG	ACTATTGCCC	CAATATTATA	TTTCAGGAAA	GGAAGGCCCA	GACAAATGGT
142921	GTCACTGGTC	CACTTTCACC	CAGTTGGTAA	ATGAAACCAG	AAATTATAGC	TGTACCACAG
142981	AAAGGTGAAA	ACGTTTCTTT	TATAATTTCA	CATACAATCT	TTAATGGACC	CAGTGTCCAA
143041	CACATTAAAG	CAAGTGCTCA	GGAGTGACAT	CAAGATGTAA	AAAATAGTCC	TGTCCTCAGG
143101	GAGTTTAGGT	CTTGGAGAAA	AGAGACCCAA	GGAGACACAA	GACAAAGGGG	AAAGAGAAGG
143161	AGCGCTGAAG	ACTGAGGACC	CTGCCTGTGG	ACTGAAAGTA	GGATGGGGAC	ACCCGATGCC
143221	CGGAATATGA	CAGTTTGGAG	GGGCCTGAAG	GACTCTTCTA	TTCTCTATCA	GAAAAACAGA
143281	ATTACTCTCC	TAACCAGAAA	AGGTATTTCA	ATTTATATTT	TCCATCACAG	CACTTTTCTG
143341	GTGATAATTT	AATGTGTTTT	AAAAAATGTA	TCACAGTGAT	GGCCTGGTGT	GAAATAAATA
143401	ATAAAATTTT	AAGAATTAAA	AAATATAAAA	ATCTTTTATA	TAGACATTAG	GAGTTACAAG
143461	GATAACTGTG	AATTATAATT	AGTAATTAAA	TTGAAATACT	GATTATTTTC	ATTTTTATTT
143521	AATTATTTAA	TAAAACCTAT	TTAACATTTA	ATATTTATCA	GTAATTAAAT	CTAATTGTTA
143581	ATATTTATTA	TTATAAATTA	TTTTAGAATT	AAAAATAAGT	GTAGAAGCGA	GGCATGGTGG
143641	CTCAAGCCTG	TAATCCCAAC	ACTTTGGGAG	GCTAAGGTGG	GAGGATTGCT	TGAGCCCAGT
143701	AGTTCAGAC	CAGCCTGGGC	AACATGGAGA	AACCCTGTCT	CAATACAAAA	AAATGAGCCA
143761	TGTGTGGTGG	TGCGTGCCCTG	TAGTCCCAGC	CATTCTGGAG	GCTGAGGTGG	GAGGATGACT
143821	TGAGCCTAGG	CAGTCAAGGC	TGCAGTGAGC	CCTGATCTTG	CCACTGCACT	CCAGTCTGGG
143881	CAACAGAGCA	AGACCCTGTG	TCAATATACA	TATGGACAAA	CTTAAATTTT	AAAATGAAAG
143941	CATACTACTG	ATACAGAATT	GAGTAGAGAT	GCAAAGCTAG	TCCTATAACC	GAACAATAAA
144001	AGATAAAAAG	GAGAGTGGAA	GAAGGTATGT	CATGAATTTT	ATGATAAATG	GCAATTGCAA
144061	ATATCCTGTA	GCAGAACAAA	ACAACAAAAC	TGTAGATAAA	ACATATCCAA	CCCTTTGGAA
144121	GGCCAAGGAG	GGAGGATTGT	TTGAGCCCAG	AAGTTGGAGA	CCAGCCTGGG	CAACATAGTG
144181	AGACCCTGTA	TCTAAAAAGG	AAGAAAGAAA	AAAAAAAAAA	GGATGATAAA	GTAGACAATA
144241	TTGAAAGCCA	TTTTCTGCAA	ATACATAGTG	AATTTGATCA	GTAATTTTCT	TCCAACAGTG
144301	CAAAAATGAA	TAGATATTAG	TTGCCTGAAA	TAAAAATCAA	ATATCCAACA	AAAAATATTG
144361	ACTATCTAAT	AGTATCTAAG	CTAGTAAATT	TGGCCAGTTA	TAAAATGTCT	TAAATTTTTA
144421	TTTAAAAAAA	GAAAACCATA	TTTATAAGAA	GAGGTGATAA	AGAGAAATTA	TTTCAGTTAT
144481	GAAGATTTTG	TTAGAAAAC	ATGAGAAAAA	AACATTTTTT	TGTTTTCAAA	AAGTGAAAGA
144541	TTAAGTTACC	AAACAGTTGC	TAAAGAATAC	CAGATGGCTG	AGCGTGGTGA	CTTATGCCTG
144601	TAATCCCAGT	ACTTTGGAAG	GCCAAGGCAG	GAGGATCATT	TTAGGCCCTG	AGTTCGAGAC
144661	CAGCCTGGGC	ACTGTAGCAA	GACCCGTCTC	TATTAAAAAA	AAAAAAAAAA	AAAAAAAAAGA
144721	ATACAAGACC	TTGCTAACAA	TAGCAAAGAT	CAATTAATTC	AAAATTTGAA	AAACTGTAAT
144781	TTATTTAGCT	TTAGAGTACT	CTCGTGATAT	GAGATTGCCA	AATTAATACT	TTGGGTGCAT
144841	TTCTTTTCTC	AAAGGACTTG	CAAATTTACA	AAGAAGTGTT	GAAGAAAAGC	CACACATTGG
144901	CAGGTAATGT	TTGCAAAAGA	CAGATCTGAT	GAAGAACAAT	ATTTTTAGAA	TATACAAAGA
144961	ATACTTAAAA	CTCAACAGTA	AGAAAATAAC	CTGATTTAAA	GCAGGCCAAT	GACCTGAACA
145021	TCTGTTCAAC	AAAGAAGATA	CACAGATGCA	AGTATGCATA	TGAAAAGATG	CTTGACATCA
145081	TGTCATTAGG	GAACTGCAAA	TTAAAACAAG	TAGATACCAC	TGCATACCTA	GTAGAATGAC
145141	CAAAAATTTAG	AACACTGTCA	GCACCAAAGG	TTGCAAAGAT	ATGTAGCAAT	AGTAACCTGT
145201	TCATTACTGG	TGAGAATGCA	AAATGTGCAA	TCACCTTTGGA	AGACAGTTTG	GTGGTTTCTT
145261	ACAAAAGTAA	CCATACTTTT	ACCATAAGAT	TCACCAATCA	CACTCCTTAG	TATTTATCCA
145321	AAGGAATTGA	AACTTATCT	CCACACAAAA	ACCTGCACAT	AGATGTTTAT	AGCAGCTTTA
145381	TTCATAATTT	ATCCAAAAC	TGGAACAAG	ATGCTTTTCA	GTAGGTAAGT	GGATAACTGT
145441	GGTACTTCTG	AATAATGGAA	TGTTATTTAG	AGTTAAAAAG	AAATGCATTG	ACTTTGGGAG
145501	GCCGAAGTGG	GTGGATTGCT	TGAGGCCAGG	AGTTTGAGAC	CAGCCTGGTC	AACATGGGAA
145561	AACCCCAATT	AGCCGGGCAT	AGTGGCGTGA	GCCTGTAATC	CCAGCTACTC	GGGAGGCTGA
145621	GATATGAGAA	TCGTTTGAAC	CTGGGAGATG	GAGGTTGCAG	TGAGCCAGTG	CCACTGCACT
145681	TCAGCCTGGG	CAACAGAGCA	AGACTCCTCT	GTCTCAAAAA	AAAAAAAAAA	AAGAAAGAAA
145741	AGAAAAAAGA	AAAAGAAAAA	GAAAAGAAAC	GATCAAGCCA	TGAAAACACA	TGAAGGAAAC

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145801	TTAAATGTAT	GTTACTAAAA	AGCCAACCTG	AAAAGACTGC	ATACTATATG	ACTCCAACCTG
145861	ATGCAGGGCA	AGCAAGCCAA	AAATTAGGGC	TTAGCCCCGG	AAGAATTCAA	GGGTGAAGTG
145921	GTGGTGTTAG	CAACTTTTAC	TGAAGCAGCA	GTGTACAACA	GCAGAACAGG	TACTGCTCCT
145981	TGCTGAGCAG	GGCTAACCCA	TAAGTAATGT	GCCCAGAGTA	GCAGCTCAGG	GGCAGTTCTG
146041	CAGTAATATA	CCTGCTTTTA	GTTAAGTGCA	TGTTAAGGGG	GATTATGCAG	AAATTTCTAG
146101	AAAAAGAGTG	GTAAC TTCGG	AGTAGGTACA	GAGGAAAAGAA	GTCGATAATG	TCCTGTTGTT
146161	GCCATGGCAA	CGAAAACTG	ACATGGCGCT	GGTGGGCGTG	TCTTATGGAG	AGGTGCTTTA
146221	ACCTCGTCCC	TGTTTCGGCT	AGTCTTCAAT	CTGGTCCGGA	GTAAAGTCCC	TGCCCTCCGGA
146281	GTTCACTCCT	GCTTCCTGCT	TCACAACCTGT	ATGACACTCT	AGAAAAGACA	GTAACCTATGG
146341	ACACAGTCAA	AAGATTAGTT	GATAGAAATT	GGGTGACAGG	AAGTGTGAA	AAGGCAGAAC
146401	ACAGGATTTT	TAGGGCAGTG	AAACTTCTGT	GATACTATAA	TGGTGAATAC	ATGACATTAT
146461	ACATTTGTCA	AAACCCATAG	AAAGCACAAC	ACCAAGAATA	AACCCTAATG	TAAATTACAG
146521	ACTTTCGTTG	ATAATGACGT	GTCAATGTAA	GTTCAATTGT	AATAAATGTA	CTACTGTGGT
146581	GCTGGATGTC	TATGGTGGGG	GGACATTTTT	GCTTCAATAG	TTACAGTTGA	AGTAAATGTT
146641	TGTGTTTCCC	ACAATGCATA	TGTAGAAACT	CTCACATTCA	ATGTGATGGT	CTTTGGAGGT
146701	GGGCTCTTTG	GGTGATAGTT	AGGTTTAGTT	GAGATCCTAG	CAGATCGAGT	CTTCATGATG
146761	GGCATGATGG	GACTGGTCCC	TTATAAGAAA	AGACCAGAAA	GCTAGCTCTC	TCTTTGCCAT
146821	TGTAAGACAT	AGCAGGAAGG	GAGCATCTG	CAAGCTAGGA	AAGGGCCTTC	ACAAAAGAAC
146881	AACTCAGACC	TCAGAACAGT	GAGAGATAAA	TTGTCGTTGT	TTAAGTCACT	CAGGCTGTGG
146941	TATTTTGTTT	CAGCAGCCCA	ACCTAAGACT	GTTAATTGGA	TTAGAAATTT	CCTTTTGGGG
147001	ATGGTGTGTG	GCGGGCGGGG	GGCGGGGAGT	ACCTTTGTTA	AGCTTTTATA	TCAATGAGTT
147061	TGTAGGCTTT	TCTTTTTTGG	TCATTGACTA	GGACAGTTTA	AATAGTATGA	GTGTGAAGGA
147121	GATTGTTGGT	CATCTATTCT	ATGTCCCTTC	TCTGTTTTTT	AATATGAGAA	CTCCTGATTT
147181	TCAGCCAAC	ACCCTGGAAA	AAAAGCTAAT	CTTCTGACT	TCTTAAGTGT	GGCCATGTAC
147241	TAAATTCCTG	CTAATGCAAG	GCAAGCCAAA	GGTTTTATGA	TAGGTTTTAG	GACACTAGAG
147301	TAAAAGAGAG	CTGTTGCACA	CATGCTCTTC	ACCCTACTTT	TGTGTCCTTT	TTTCCATCCT
147361	ACAACCTGGG	TTGTGAGTAT	GATGGCTGGA	ACTTTAGTGG	CTCTCTTGGA	TCCCAGGGGT
147421	AATTGAGGGG	TGGCTGGAAG	GAATCTGTGA	TTTTCTGGAG	TTTCCATACA	CAAAACAAGAC
147481	CTGGATTTTC	TGGGCTTCCC	AGACTTCCAC	ATCTAGACTT	GCTTTAAATG	GGAGATAAAT
147541	AAACTTGTTT	CAGCCACTGT	CATTTTGGGC	TATTTTATAG	AACTTAATCT	AATCTTCAAG
147601	GGTACATGAA	TTGCTTTTCC	TTAAAAAATA	AATCAGCCAT	AAAATCATCT	TCTTTTCTCT
147661	TTTGTTCCCC	ACATTATTTA	GTTGGAGCTC	TGTAACTTTT	TTTTTTTTTT	TTTTTGAGAC
147721	AAGGTCTTGC	TCTGTCACTT	AGGCTGGAAT	TCAGTGGCAT	GACCATGGCT	CTTTCGAGCC
147781	TTGCCCTCCT	AGGCTCAAGC	AATCCTCGTC	TCAGCCTCCT	GAGTAGCTGA	AACTAAGGCA
147841	CATGCCACCA	TGCCAGCTA	ATTTCTTTTC	TTTTAGAGAT	GGGAGCCTTG	CCCAGGCTAG
147901	TCTCAAACCT	CTAGCCTCAA	GTGATCCTCC	CATCTCAGCC	TCCCAAAGTG	ACAGGATTAC
147961	AGGTGTGAGC	CACCATGCCT	GGCTGCTCTG	TAAGTGTCTG	AATTTCAATT	TGTATTTATC
148021	AGTCTGTTTA	GATTTTCTTT	CCCTTCTTGG	GTCAGTTAGG	CCATTGGTTT	CTTTTAAAG
148081	GTTTTCAAAT	TTATTTGCAT	CTAATCTTTC	AAATTACTCT	CAAAATTATT	CCAGTATATA
148141	TTCTTTTGTT	CCTATTTTCT	TCTGTATTCT	TTATTAAAT	AGCTAATGAT	TTATCTAGCA
148201	GGACTTATAT	TCTTTCCATA	ACTTTCCTGC	ACCCCAATTA	ATCTCCAATT	TTATATTTCT
148261	TCTGGCCTTC	CTTATAGTTT	CCACAGGTTT	ATTTTATTCA	TTTTTTAAAA	CTTTTATTTA
148321	ATTGTTTATT	TTATTATCAT	TCTTCTTAT	TCAGCAATCT	AAGTGCTTAG	GGATATAGAA
148381	TTTCCTCTAA	GCAGCATATG	CTAGGCTTTA	ACAATGTTAG	GGAGGCCTCC	CCTTCTGGG
148441	GAAGACCACA	CTTACATTAA	CACAGGACTG	TGGGATGCCA	AGAGGTAGAG	AAGAGCTTAT
148501	GAATATCCAG	ATTACATCTT	CACCTGATCCT	GCACAAAGGT	GGGGTTCCCTC	GGTTACCCAC
148561	TGGGTCCCTAT	TACCCAAGTC	TGGGTGAGCA	TACCGAGACT	ACGGGTATAT	AGAACAAGTG
148621	CAACTGGCGA	TAATCCTTCT	GTTGGGGAGA	AAAATCTTTT	TTTTCTATTTC	ATCTTAGGTT
148681	CTCCATCTGT	GGCCCTATCA	AGTAGACTAA	CAAAAGACAG	ATTGACAAGA	CAGAAACAAA
148741	GCATGTGCAT	TGTACAAACA	CAGGGGAGTA	CTGAGATGAA	TACTCAAAAG	AGGATTTAGA
148801	ACTTGGGCTT	ATATAGCATT	TTAAGAAAAG	AATACATTTT	TTAAGTGACA	AGGAAGACGA
148861	AAAGGACTTT	GAGTTTCTAG	TGCAGTAAAT	TGTGGGAAGG	CAACTTTTTTC	TTTCCCTTTT
148921	TTTTTTTTTT	TTTTTAAAAA	AAAAGACTTC	TCTGGTGCTA	TGTCCAGGCT	GATAAGAGTC
148981	TAAAGTCTCT	GGTGACTAAC	TTTTGTCTCT	CCCCGAGTAA	GAAGACACCT	TCACAATTTT

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149041	ATATCCTGCT	TTTAGGCCAAA	TAGGGAGAGG	GCAGAGGTGT	TTGTTTGT	TTAATCTATT
149101	TTTTTCTCA	ATTGTCTTCA	ACTCAAAATA	CTTCTTATGC	CAAAGATGGC	ATATTCTGCT
149161	ACCCTTCACT	TACTACTTAC	AACCCAGCCT	CTATCATCAT	AATTAGAACT	TCTGACCCTG
149221	GGGAACATGG	GCAATAGTTT	GAACTCTTTT	ATATCTCCCT	TAGGCAGAGA	TGGAGGCCCA
149281	GCCATGCCTC	TGACATCTAG	ACACAACTGT	TGCTTCATTT	CTCCTATTCT	CAGAGGTGAT
149341	GTTGTAGGAC	TTCAACAAAT	ATCAGTAAAC	ATTAATTTTT	TTTTTCCTTG	AGGCACAGCA
149401	TGATCTTGGC	TTACTGCAGC	TGCTGCAGGC	TCAAGCAATT	CTCCTGCCTT	GGCCTCACGA
149461	GTAGCTGGGT	TACAGGCCCC	TACCACCATG	CCCGGCTAAT	TTTTGTATTT	TTAGTAGAGA
149521	CAGGGTTTCA	CCATGTTGGC	CAGGCTGGTG	TTGAACTCCT	GACCTCAAGT	GATCCACCTG
149581	CCTCAGCCTC	ACATAGTTCT	GGGATTACAG	GCGTGAGCCA	CCATGCCTGG	CCATCAATTT
149641	TTATGTCAAC	TCTAAATTAT	AACATTTAGC	AATTTTGTGA	CTTTTTATGG	TCATCAATTAA
149701	TGTTGTTTAT	GTTTTAGTTG	TAGTCCTGTC	ATTACTCACT	CGGGTATGGT	AATTTGGTCT
149761	TTTTCAAAAT	GAAGTTAAGG	TCTATTTGCT	CTTCTCTGAA	TCATAATAAG	AACTGCCAAC
149821	AGCCATTTCA	GCAATAACTA	TTTACTGAGA	TTTTAAAATA	TTTCAAGGTA	ATTGGTCCTA
149881	GCAGACTGGA	AAATACCAAA	TTCTTTTCCA	GAAGTGAATC	CCCCATCAAA	GTTCAATTTT
149941	ACTCATAATT	CCCTTTTTCAT	TTGAAGCATC	TCATTGTAAG	CCAGTCTTAA	CCCTTCTCTC
150001	ACACTTTGCT	TGGCTGTTTC	TCAGGTAGAA	CTCAGTAAGT	CTGGTAGCCT	CCAGGACTGC
150061	CGCTTAGATT	ATTAAACAAC	ATGTCAGTGG	TTGGAAGAGT	CAATGTTATT	TTGATTTTTC
150121	TGTTTTGTTT	TGTTTTAAAT	GCAGTTGGCG	GATAATTGCA	GCTTCTTTTC	ATTCCCTACA
150181	TGAGTTCAAA	TGGCAGCAAA	CAAAC TAGGA	GAACGCAGAC	CTTCTGACTT	GTGGGTACCC
150241	CTACTCATCA	CCTGAAGACC	CTTGGAATC	AAAGCCCTGA	CCCATTAAAG	ACGGATGGAG
150301	ACAGCAACAT	ACGATCATCA	CTATTATCTT	GCTTTGCCCC	AGTCCAGGTT	AACCATCTGT
150361	GGTATTTTTA	GTTGCTAAGT	CCATATATTC	AACATAAATC	AATTATATAT	CCACTAAAT
150421	CTCAGCACTA	GTCTAACTAC	TAAGGAAATG	ACAGCGAAGA	AAACAGACCA	AACGTCTGCC
150481	CTTATGGGAT	TTATATTATT	TTCTCTGTGC	TGGTTAAACC	AAGGAGCTTC	TGCTCTTTTC
150541	CTTAGTCACC	TGGGGGAGGC	AGAAACAAAG	GAGAATATTG	ATAAACCTGG	AAATAGGGCC
150601	GGAGAGTATC	AGAGAAGGAA	GCCTTCGGGA	AAGTAAAGAT	GTGGCAGCCA	GTATTCCCGT
150661	TATAAAAGGA	TACAACTCCG	GCCTCATAGT	CCAGAAAAAT	TCCCACAAGC	AGGGGCTGCT
150721	CATGCAGATG	AAGGGAAGTT	GGGGGAGAAG	TAAGTGCTAC	ATAGCCTTTC	TTTTTGCACA
150781	GCCTGAGGGT	CCAGAATCCA	GACTGAGGCT	CTTGCTTCAT	GCCAGTGCCC	CTCTGCACAT
150841	TTTCCATACA	AACTCCTAAA	TCCCATCCGG	TTCTTCGCC	AACATCCACT	TCAAAGTAAC
150901	GTCTTCCTGA	GGTGAAGCCT	TCACAACCCA	AGACACAGGG	GAAGGCAGTA	AATCTCCTGG
150961	AAGATGTGTC	CTGATTCTCC	TGGGTGTATC	CACGAGTCAC	TTGTCTCCGA	TCCTCAGAGA
151021	GAATTAGTTC	GTGATGAGCT	GTTATCTGGT	CCAGAGTCAC	ACTAACTGCA	AAACAAAACA
151081	AAACAAAACA	AAATAATTTT	GTTGCTGTGA	AGAACACAGG	TTATTTTATT	TTATTTTATT
151141	TTGAGATGGA	GTGTTGCTGT	CACCCAGGCT	GGAGTGCAC	GGCACTATCT	CAACTCACTG
151201	CAACCTCCAC	CTCCTGGATT	CAGGCAATTC	TCCTGCCTCA	GCCTCCGGAG	TAAGTGCAGC
151261	TACAGGTGCG	CACCACCACA	AGTGGCTAAT	TTTTTTAAAT	TTTCTGTAGA	GATGGGGTTT
151321	CGCCATGTTG	GCCAGGCTGG	TCTCAAACCTC	CTGACCTGAA	GTGTTCCACC	CACCTCGGCC
151381	TCCCAAAGTG	CTGGATTACA	CAGGTGTGAG	CCACCATGCC	CAGCCACAAG	TTATTTTCAA
151441	TAAAACCAGC	CTGTGTTCAA	ACCCAACATAT	TGTTTCTTAT	AAACTGGGTG	AGCTTAGGCA
151501	AATCATTTAA	CTTCTGAGC	CTCAGTTTGT	TAACATATAA	GTGGAAATTA	CCGTATTTGT
151561	TGCAGAGAAT	GGTGGGTAGG	ATTGAATAAG	CTTATGTTTG	CTTAATGCTT	GGTAAATTC
151621	CTGGTACATG	GTAACCACCT	AATAAGTGGT	AGTTGTTGGG	GTGATCAGGC	CCAACACCAG
151681	GCCGTGGGGG	CTACAAAGTC	CGGCGGGGTC	AAAGGAATGA	GAAAAGACAA	GTTAAGAGTG
151741	CATAAAGTGG	GTCCAGGGTG	CCAGCACTAG	ATTGGAGGCT	GCAAAGGCCC	TAAGCTCTGG
151801	GAGCCACAC	TATTTATTGG	TATGCAAAACA	AAGAAGCAGG	TGGTGAGGAC	GTGAGGGTAA
151861	ACAGGTGAGG	GCATGAGGAC	ATGGGGGTAG	AAAGGTAGTG	GTGCATTAAG	CGTAGCTGTG
151921	ACAGTTTAGC	ATTTTCTTTG	ACACATGTAG	AATATACTCT	GCTGCTTGAG	ATAGTAGAGG
151981	ACACGTTTAT	GAGTGAAAAG	CAAGGAACCA	ACAAGTCTGT	GCACTTTCCA	GAGGCTATGA
152041	GGGGTTTTAT	GCCCTGAGCC	CTGGGTTC	TCCAAGCCAC	AAGGGGTTTT	ATGCCCTAGG
152101	CTTAGATTTG	TGGTGCGGCA	GGGCAGCCTT	CCACCATTTG	GCACAGAGCT	TGGTGTTC
152161	AAGGCCACGA	GGGGTTTTGG	ACCCTGGACC	CCGGACATCT	TCCAAGACTC	TTTTACATTA
152221	TGACAGACAA	GCCAGTCCTG	CTTCAGCTCT	TCTAACAACA	TGTAGTAATA	ATGATATCAT

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155521 GGTGGCAAAG GGAGACCCTG TCTCAAAAAA AAATTAAAAA ATTAGCCAGG TATGGTGGCC
155581 TGTTCTGTGA GTCCCAGCAA CTGGGGAGGC TGAGGTGAGA AGATCACTTT AGCTCAGGTG
155641 GTGGAGCCAT GATCGCACCA CTGTACCCT CGGCTTGGGC AACAGAGTGA GAGCCTGTCT
155701 CGAAAAAACA AATATATACA CACAGTAATC AATATATATA TTATATGTAC CAATCAATGC
155761 TTCACTTTTA TATATAATAT AGATTACATC TTATTAGATA TATAGTATTC CTTCTCCATA
155821 GATAGATAGA TACAGATATA GACATAGTAT CCTCTATCCA TATTAGAGAG AGGATACTAT
155881 ATATATCTAT AGCATATAGA GATGCTGTCT CAAAAAATT TAAACATCAG CCAGATGTGG
155941 TGGCCCATGC CTGTAGTCCC AGTACTGGG GAGGCTGAAA TGAGAGGATT GCCATTGATC
156001 CTCTCATTGG TTGAGCCATA ATCGCACTAC TGCACCACTC AGCCTGGGAG ACAGAGGGAG
156061 ACCTGAGGTG GAAGGATATA GATATAGATA TATAAATAAA TATGTATAGA GAGAATATAA
156121 TATATGTGTG TATGTGTATA TATATATATT ATGAAGACAC TGGGAGAGAA TACTATATAT
156181 ATATGTGTGT GTGTATATAT ATATTATGAA GACACTGGTG GGATGGTTTC ATTACCAATT
156241 GGACCAAGAG TCCAGGTATG GAGCCAACAT GCAATGTTGT TGTGACTGA GCTGGCAGAG
156301 CACTGGTCAT AGTTACGGGA AAAGAAGGTC TCCAATGAGA CATACTTAAC AAAATATATG
156361 AACTTGCCAT ATACGTGGAG AGTCTGGTG TGTATATAGC CTTCTCTCAC CAACCTAGCA
156421 ATTGTCTTCA TCATCATTAT AATGCTATCA GAGCAAAGAT GACAGCTAAA TTTTTTTGTC
156481 CCTTCTTCT TCTTCTCTT CCTTCCCTC CCCCACCTCT TTCTCTTCTT CCTCCTCCTT
156541 CATCTCTCTT CTTTTTTTTT TTGAGATGGA GTCTTACTCT GTCGCTCAAG CTGGAGTGCA
156601 GTGGCACAAT CTCAGCTCAC TGCAACCTCT GCCTTCTGGG TTCAAGCAAT TCTGCCTAAG
156661 CCTCCAGAGT AGCTAGGACT CCAAGTGCAC ACCACCACAC CTGGCTAATT TTTGTATTTT
156721 TAGTAGAGAT AGGGTTTTAC AATGCTGGCC AGGCTGGTCT CAAACTCCTG CCCTCAAGTG
156781 ATCCTCCTGC CTCGGCCTCC CAATGTGCTG GGATTACAGG CGTAAGCCAC TGTACCCGGC
156841 CTCCTCCTTT AATAGACAGG GTCTAGCTCT GTTGCCAGG CTGGGTACAG TGGCGTGATC
156901 ATAGCTTACT GCAGCCTCGA ACTCCTGGGC TCAGGAGATC CTCCTGCCCT AGTCTCCCCA
156961 GTAGCTGGAA CTACAGGCAT AGCACACGGG GCTAATAAAA TTAATTAGGT GATAAAATTC
157021 ACTGCCCACT GATGACTAAG CTCTTTGGAC ATAAAAGACA CAGACCTTGA AGGAAAATGT
157081 GTCTACTTAA TTTTGAAACC CTATTTATCA AAAACAGGA TGAAAATGCA AAATGCCATC
157141 CACATGCCAG AAGATATCAG CTATAATAAG TTCCCATAAA TCAATAAGGA AAAGAACCCA
157201 ATAAAAATTA TTAAACCACA GTAAATCATG GGTAAATCAC AGAGGCCTGA AGGGCTAATG
157261 GACATACAAA AAGAATCTCA ATCTCACTAG TGAAATCAGA AAAGCACAAA TTAAGTACAC
157321 AATTAGGTAC CATTTTAAAT CTGTAAGACT GTCAAAATCA TAAATTATAT AAGTAAAGAC
157381 TCAGGGAGTT TTGGAGGAGT GAGAGCTCTT ATATTGCTTG TGGGGTAGAA TTGGAACAAT
157441 TTCAAGATCT GTAGTATCTG GTAAAAATTAT GATATGCATC CTCACACCA GCATGTCACT
157501 CCAAGGTATC TCCCTGGAGG GAACATTTAC GGGACACAAG GAAGCATGGA TAAGAATGTT
157561 CACAGTAGTA TTGTCTGCAA CAGCAACAAC AACAAAAAAA CCCAACTACA CACAATCTCA
157621 ATGCCCAGTC CACAAGGCAA TGGATTAAAT AAACCTCAGG CCGGAGATGG TGGTTCATGC
157681 CTGTAATCCC AACACTTTAG AAGGCCGAGG CGAGAGGACT GCTTGAGCCC AGGAGTTCAA
157741 GACCAGCCTG AACAAAATAA AGAGATAGTG TTTCTACAAA AAATTTTTTA AAAATTAGCC
157801 AGACGTGGCA GTGCTTGCCCT GTGGTCCCAG CTACTGGGGA AGCTGACGTG GGAGGATTGC
157861 TTAAGCCCAG GAATTTAAGG CTGCAGGGAG CCATGATGGG GCCATTGCAC TCCAGCCTGG
157921 GTGACAGAGT GAGACCCTGT CTAAAAGAGA TAAGTAAATA ACAACTTTGC ATTTTCTGCC
157981 ACATTGCAAA ATGGTGAGAG AGTGTTTCT AGACTCTAGA CTCTTTCTAT GACTACCTTC
158041 TAGTTATGAG ATCCTACAAC ACTCACCTAA CCTCTCTGTG TCATATTTCC TCCTCTATAA
158101 AGCAAAAATG CCCCATATAG AGAGGACTGT GATATAAAAC AAGAACCAAG AAAAGTAAAG
158161 CTTTCTAAT CTGTCACAGA CTAAAGAGTG CTCAGTATAT GTGAGTCATT ATTCTGGTG
158221 CTGGTAGGAG TGTATGTTAC AACTTTGAGT CAAGTAATAT GGTACCATAT ATTAAGATTA
158281 ACAACAACCT CGGCAATCCC AGTTTGGGGT ATGTTCCCAA AAGAAATGAA AGCACCAGGA
158341 TATAAGGATG CATGGACTAG AAAGTTATTG TAGCAACATT GTAATAACTA AGTTCTAAAA
158401 ACAGCCTGAA GCTCCATCAG TAGGGATATG GTTACATATA TTTATTATAT TCTTATGGAA
158461 TATTAGACAT AAAAAGTAAC GAGTAACATA GAAGAGACAG TGTATATATG TTACGTTTGT
158521 ACAAACCTAG GGAAAGATAT AGATCACCTT ACCTAGAGAA GTCAGATTGG AGACGGGTGG
158581 GAAAAACCTT GAACCTTCTC CTTATATCCT TTATATTGTT TGACTGATTA AAATGTATTT
158641 GTTGCATCTG CTTGAAGGCA ATGTAATAAATA AAATAAACAT ACATTTAAAA ATAAAAATAA
158701 AATTTATTCC TATCACTTTT GTAATAAAGC TGGGCACAGT GACTAACACT TGTAATCCTA

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158761	GCACTTTGGG	AGGCAGAGAC	AGGCAGATCA	CCTGAGGTCA	GGGGTTTGAG	ACCAGCCTGG
158821	CCAACATTGT	GAAACCCCAT	CTCTACTAAA	AATACAAAAA	TCAGCCAGGC	ATAGTGGTGC
158881	GTACCTGTAA	TCCCACGCTA	CCCGGGAGGC	TGAGGCGCTG	GAACCCAGGA	GGCAGAGGCT
158941	GCAGTGAGCT	GAGATTGCGG	CACTGCAAGC	CAGCCTGGGT	AACAGCGAGA	CTCCATCTCA
159001	AAAAAAAATT	TGAAAAAAGA	AAAATTTTAA	TAAACAGTGT	TTAAGAGGGG	AGAAATATTT
159061	AGTTAAAAGA	TAAGCCCATT	TAAGAAATAG	TTTCACTTGA	CCCGGAAGGC	GGAGCTTGCA
159121	GTGAGCCGAG	ATCGCACCAC	TGCACCTCCAG	CCTGGGCGAC	AGAGCGAGAC	TCTGTCTCAA
159181	AAAAAAAAAA	AAAGAAAGAA	AGAAAGAAAG	AAATAGTTTC	ACTTGAACCA	TATTATGATT
159241	CCTTCTGTAA	AAGATGAGAG	TAGGCAAATT	GACTCAGTGA	AATCCAGCA	AACTTACAC
159301	AAAGTCTTGT	TCTTCCTTCC	TGTCATCTGT	ATAGGATGAA	ATACAGAGTG	CTTTTGGGTT
159361	TTGTTGTTGT	TTGTTGTTGT	GTATTTGAGG	GGAACACAGG	TCTATAATTC	CTTTTCTGAA
159421	ATCCCTGGAA	CAAAATGGGC	TTTGCCATTC	AAATTAGTTT	AGAAGTTATA	AAGGCAAAAA
159481	AATGCATATA	CTCTAAAGTT	CAACCCCATC	ATGGCCTAAG	GCAGAGCCCT	GTAATCAAAT
159541	TCATCAATAT	ATCTGCAGCA	AAACATTTAT	TCAAATTAAG	TGGGATAAAT	AAAGACTTTT
159601	AAATAGTCTC	ATCTCAGTGC	CGTTCAGGGT	TGGCCACTGT	GGAAGACAGA	CTCAAGGGTG
159661	GCCTTCTATG	ATTCCTGCCT	CTTGGTGTTT	ACACCCCTCGT	AAAATTCCTT	GTCTTTGAGT
159721	GTGAGCAGGG	CTTATGAATT	GCTTCTGACC	AATAGGATAT	GGCAAAGATG	ATGGGATATA
159781	ATTCTATGA	TTACGTTTCA	TTATGTAAGA	CTCCATCTTG	CTGGCAGATT	TTCTCTAAAG
159841	AGTCTGTCTC	CTGAGCTCTC	TCTGAAGAAA	TAAGTGCCCA	TGTTAGAAGC	CCATGTGCAA
159901	AGAGCTGAGG	GGTGGCCTGT	AGAAGCTGTG	GGCAACCTCC	AGCCAACAGC	CAGAAATAAC
159961	CAGGGCCAAA	GTCTGCAAC	CATCAGGAAA	GAAATTCTGC	CTGCTACCTC	AGTGAGCTTG
160021	GAAGTGGAAT	CTTCCTTAGC	CTAGCCTCCA	GATAAGAACA	CAGCCTGACC	AACACCTTAA
160081	CTGCAGCCTT	ATCAGACCCT	AAGCAGCAGG	CCCAACTAAG	CTGTGCCAG	ATTCTGAAC
160141	CACAAAAATT	GAGATAACAT	ATCAGTGTTG	TATTAAGGTT	CTAAATTATG	GTAATTTGTT
160201	TGTACTAATA	GATAACTAAT	ATAACCACCA	AATCATTTC	GGTTAGGCCA	GATTTTGTGA
160261	GCCAAATGAA	TCATGATAAA	ACTTTCCATT	TTCAGGGGTT	TTTTTGATTT	TGTACTTACG
160321	GATACAAATT	TGTGAAAGTA	TAGTCAGCAC	TGATTTAAAA	AATCAAGGGA	GCAGGAAACT
160381	CAGTAAATGG	TTCTAACATT	TTGGAATCTG	TAAATTGGTT	GTAACATTTG	TCATCTGTGT
160441	TATCTAAGTC	AAGTTCCTAA	AATATGTGAA	TGATAGGTTA	TCATACTCAC	CTACTTTTCT
160501	TGCATTGCTC	TAAGAGTTGG	CTGAGCTATT	GATAATAAAC	ACTATGATCA	GATCTAATAC
160561	CATGATGTGC	TATTATGATC	ATGTGTCTAGT	CACAGGGCTA	AGCACTTTGT	ACATGTTGAT
160621	GCATTTAATT	TTGATGATAA	CTCAATGAAG	TAGGAGCTGT	TAATATTTTC	ATTTTTCAGA
160681	GGGGGAAACC	AAGTCACTTG	GAGTAACATG	GCTAATAAGT	GAAAGAATAA	GAATTTGAAA
160741	GGTTTGCACA	GATAACCAGA	ATGCAATGCT	CATCAGCATC	ACTGAGCAGT	AAATGAGTCT
160801	AACTAGAGAA	AGTATGAAAG	CTCTACTGAA	ATTAAGTAAA	CAACCTCTCT	GGCTGTGAGC
160861	CTGCCAAGGG	ACAGGTGGTA	AACTTGGTTA	CTGCATAAGG	CCCCTTCTAT	CCACAGTATT
160921	CAGGAATTCT	TTAGTGAACA	TACCTTGATG	ACTCCTTAAC	ATTTTCTTCA	CATCGAAGTA
160981	AAGCTTGGAA	ACATTGCACA	TAGTATGAAG	TTCCAAGGAG	ACAGCCTCTG	ATGTTTCCAG
161041	CTTCACAGCC	CAACTCCTAG	AATAAGCAGA	GGCGAGAGAT	TTCTTCAGAG	GTGCATTCCA
161101	TTCAATTTCTA	TATACGCACA	CCCCTCCCCT	CCTGCATTCA	AACAGGACTT	ACCTGCTCAA
161161	AGTGTCATT	ACATTTCTATA	AAGAAACAAA	AAGAAAAGGT	GAGCATGGGA	ACATCGGTAT
161221	TTCATGGGGC	TTGTATGCA	GGGCTATTCT	TCTTTGCTTT	ACCCGAAGAA	GTAAAGAGAG
161281	TTACCCTAGT	CTTAGTCTTA	GATATTGATG	GATACTCAAA	CAAAGTAATT	CCCACCAGTC
161341	TTAGGTATTG	ATGGATACCC	AGATGGAATA	ATTCTACCA	GCTTCTGGGA	GATTTCAGCAT
161401	GGCAGGATGT	TTATCAACAT	TTGCATCTAT	TCTCATCCTT	GCTGAAGTCT	GAGGGCCAGG
161461	AGCTTTGTCC	ATGCTCCCTC	TGTAAGGACT	AGCTTTTGGT	GATCGGATTT	CCTTCACAGT
161521	GAGCCCAGAT	TAGAGAACAC	TTATCATAAA	GGTCCTTAGT	GGTGAATCTG	TGCAAGCCCC
161581	TGAGACTGGG	CCACTGCCAC	TAAGATGGTG	GTAGCAGGTA	TCACACAGTG	GTAAAGCAAT
161641	CATGCTATAC	ACTCAGCCTT	ACAGTATAGT	CACCAATCCT	GTTAGTTAGA	ACCAGAATTA
161701	ATGGCTCCAG	ATGTTTATCT	TCCTACAGAT	AAAGCTGTAG	ATTGTACCAT	AACAGCTCTG
161761	GAGCAAGGGT	TCTACAAGCA	AATCAGGGAA	AAGGTTATCA	CTCATTTTGG	CTGCCCCACT
161821	TCATCACCCA	TCAGTCACCT	AGTGGAGTAT	TTCAGGAGAG	AGTCAACAAC	CAGGGTTCTC
161881	TGCACATGGG	CCAAGGAGGC	AAACAGTGGT	AAATGTTATC	CCGTGGTTTC	ATTTGGCCAA
161941	GCTGTGTTCC	CTCAGAAGTT	TATTTTCTTA	ATTGACATAA	AGGTACCCTA	TAAATTAGTG

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162001	AAGGCCAGCC	TGATGGCACT	GATGTACATC	TAAAAGAAAC	ATTACTTTAT	CTTCCCATGC
162061	TTCCTTACCA	TTCTCCTTTA	ATAGCACTAT	AACATACCTT	TTTTCCCTAC	TCCAAGTACA
162121	CAGCCTCACC	TGCAGCAATT	TCTGGGCTGA	GCCCTGACAT	TTTTCCCTCA	GTTCCAGGAT
162181	GTGGCTCTTG	AGTTCATTGC	TCTTCAGCCC	CAGACCAGCC	TCATAGTCCC	TCAGTCTACT
162241	CAGAGTCTGT	TGTTCTTCTT	TCTCCAGCCT	CCAGAGATAA	GACTTCTCTT	CCTCATGTAG
162301	GAAACACTGG	AGATTCTTAA	AGTCAGACCG	GATTTTTTGT	CTCTGAATCT	GTACCTTCTC
162361	CTGGAGTCAA	GAAAGTATGG	TCAAAAGGTG	GAAGTAAACC	AAATGTCCAT	CTATGGATGA
162421	ATGGATAAAC	AAGAATGAAA	GTCTGACACA	CGCTACTACA	TGACAAGCCT	TGAAGACATT
162481	CAAGCAAAAT	AAGCCAGAAA	CAAAAGGGCA	AATATTGTAA	GACTTTGCTT	ATACAAGGCA
162541	TCTGGAGTAG	TTAAGTTCAT	AGAGACAGAA	AGTAAATAG	TGGTTACAAG	GTGTTGGCAA
162601	GACCAGAAAA	TGGACAGTTA	TTGTTTAAATG	GGTAGTGAGT	TTCAGTTTAG	AAGATGAAAG
162661	ATGAAACTGA	GTTGCAGTTT	GGAGATGGGA	ATGGTGATGG	TTGCACAACA	ATGTAACAAT
162721	GTAAAGCAC	TTAATTCTAC	TGAACTATAT	ACTTAAAGT	GGTTAAATGC	TTAAGTGTTA
162781	TATATATTTT	CACACAAACA	CACACACACA	CACAATCAGC	CACTGGGACA	TTATTTTCTC
162841	ATGAGTCACT	GAAGCTGGAA	GAATGTCCCC	AGTTTCCTGC	TGCAGAGTCA	TGTGTGGGAG
162901	GCAGGCACTC	AGATGTGGAA	GAGGTTGCCT	CAGATTCCTT	ATAGTCACCC	AATTAATTTT
162961	CTTGTTCTTC	AGCCAAGACA	CAGGAGAAAG	CTGGGTTAGG	AGTGCTAGAT	AATTTAATTG
163021	TGAAACTAGG	GCCAAGTTCA	AACACTTTAT	CAGTTACAAG	GATAAAAAGA	GGTTTTTACT
163081	TATGATTTAA	GAAGTTAGAT	TTCTGAGTTG	GAGCGATTTT	CTTGAAGTAA	AAGCTTATAA
163141	TGAACATCAC	CCAGACTGGA	TTTTAAGACA	ACCAGGCTGG	TAAGAGGGTC	CATAATTCTT
163201	GGCAGGGGGA	GCTTTGAGTG	TGACAGGCAT	TTATTATGGT	TAAGTGAAG	ATACTGTTCT
163261	ACTACCCTAG	GGTCATCTTA	AGCATTCCTA	TGTGTAAGAC	TGACAGAAAT	CAAGTGAAAC
163321	TCTCATCTGA	GGAGATGTAA	AGTTGCAATT	TCCATTAGTG	CTGTCTAAAT	TAATGCAGTG
163381	GGAGTGTGTA	TTCAGGGCAA	TTTGAATCTA	TGTTCTTGGA	TTGCAGTCTT	CAAACTTGCG
163441	CCAAATAAAC	TCTCTACTTA	TCTTAAAAAA	ATAAAAATTA	AAAAATAAAA	ATAAATTCAT
163501	ACAGTGTTTT	GATGACTATG	ATATAGAAGA	AGGGTCTTTG	ACTTAGGATG	AGGTGGAATT
163561	TTTGTGTAGG	AGACAGGTGC	AGCTTTAACT	CTTGTATAGA	CGGGTTTTCA	TATATGTTAG
163621	TTACAATCAA	GGTCTTCCCC	ATTGCCCAAG	ATCCTAGAAA	TGGGGGAAGT	AAGAGTGTAC
163681	TCAGGAGCTC	AAGAGCAACA	TCCACAAACA	AAGATCAGGG	TAGAGGTTAG	AGAGGACTCC
163741	TGAAAGAGAG	AAAATTGGTA	ATCAGCTTGT	GGGATTTTAC	TGCAAGCTAG	TGAATTATAT
163801	AAATATAAAG	ATTGGTGCAA	AAGTAATTGT	GGTTTTTGCC	TTTACTTTAA	TGGCAAAGAC
163861	CGCAATTACT	TTTGCACAAA	CCTAAATATT	TCCATAAAAG	AATGTGGCTC	TGATAATGTG
163921	GAGGTTAGTC	AGCCACGGAA	ATAATCTGAA	AGTTTGTAGT	TGCAAGTGTG	TAGGTTGTTG
163981	CATTACTTGT	GATGTACTTA	TAAATCAAGT	ATAGGCCGGG	TGCAGTGGCT	CACGCCGTGA
164041	ATCCCAGCAC	TTTGGGAGGC	TGAGGTGGGT	GAATCACGAG	GTCAGGAGAT	CAAGACCATC
164101	CTGGCCAACA	TGGTGAAACC	CCGCTCTAC	TAAAAACAA	AAAATTAGCC	AGGCATGGTA
164161	GCACATGCCT	GTAATCCCAG	CTACTCAAGA	GGCTGAGGCA	GGGGAATTGC	TTGAACCCGG
164221	GAGGTGGACA	TTGCAGTGAG	CTGAGATCGC	ACCACACAC	TCCAGCAAGA	CTCCATCTCA
164281	AAAAATAGTA	ATAATTTAAA	AATAAATAAA	TAAATAAAGT	ATATTTCTTT	CATCAGCTTC
164341	ATGAGCTAGA	GTAGTATGAA	TTTCAATCTG	GAGTGATCCT	GTTTTCTAAG	TGTTCACAAA
164401	GCTTGCTTTC	TGTACCTGTA	AAGTTGAGAG	CCAGATGCTC	CACTGTGGTA	AAAGTGCCAG
164461	GGTAATGAGT	TGAGGCCTGC	AAACCAGGTT	TATTTTGACG	TATTTAAAGT	TTGAGACCCA
164521	CTCGATGCTT	TTTCTAGGTA	AATAGTCATA	CTAATTCTGC	TTCTTCTGAC	TGAAGTATCA
164581	GGAATCCCAG	CCAACTACAG	TTTAAAGATG	GAAAGATTGG	TGCTAAATAC	TCATGGATGT
164641	AAACCTGGAA	CCAGGGGCAT	AAGTACAAAT	AATGGTTTCT	TCCTTGGGTT	TCATTTTCTC
164701	AATCTGGTTT	AGTGAGAATA	AATCCTCATT	GTGCTTTTCC	TCAATCATCC	CCTATGCCCTA
164761	AGCTCTAGAA	TGGAAAATAG	CTTGAGATCA	ATGAAGTCAG	ATTCTTACTT	TCCATTTAGT
164821	TATTCGCATT	GCTGTGGACA	GCTTCTGCTC	CGTACATCTG	TCTTCAAGTT	GCTTCAGTTT
164881	TGTCACAGCT	TTCTGGAGCT	TTTCTGTAAG	GAAAAATTTG	ATAAGTGAAG	CCTATTCAAT
164941	TTGACTCTTC	ATTAGGGACC	TAGGGGGAAT	CCCAATCTTC	TAAGATATAT	TTGAATAATA
165001	GTGAATATTT	ATAGAGTCCT	CATTGTTTTT	TGCTAGAGAG	CATGCTAAAG	CGTATATGTG
165061	CAGGAACATA	CTGATCCCCT	TGGCAACCCT	GAATAGTTGG	TAGGATTTTA	AACTTCATTT
165121	CTGTGCTGTA	GAAAATGAGA	CTAAGAAAGG	GGTAAAATAA	CTTGCCCCAA	GGGCTATGAC
165181	TGCCAGGTGG	TGGAGCAACA	ATTGCAATCT	CATCTGCTGA	CCCAGAGCCT	GAGCTATGTC

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165241	CACCACTAGA	GTCCTGCCAG	GAAAAAGTTG	GATATAGAAC	AAGGTAATCA	TCATCTAAAA
165301	GATTTTGTAA	AACAACATGC	TGAACCAAGC	AAAACCAATA	CCAGTGTTTG	GCACACATGA
165361	AATTTTGTGT	CTTATGAGTC	AGGAAAAATC	AGGATGCCAG	CTGGTTATTA	GAAACAGTTC
165421	ATGGAAGAGG	GGAATTCTGG	TATCTTTTGA	ACAATGGTAT	CATGAATCCA	ATTTAAAAATG
165481	ATTTAGTATT	CATGTCAAGC	TTTTAGCTTA	TTCTTCAAAA	CAGTTTCTCA	TATTTCTATT
165541	GAAAGTGATT	TGAAGCTGAC	CCAAATTGCT	AATTGTAGTC	AATGCTGAAA	GAATTGTCTC
165601	CTGTCCCTCG	TAAACCCAAC	AAGTATACTC	ATTCATTCTC	GAGTGTCTC	AGGAAAAGGT
165661	TCTATGTAAC	TGTTTTAGCA	AAAGATGACA	TTGTCCTTAC	TATATGCCAA	GTGCTATTCT
165721	ATGCATTCTA	TATTTTAATG	TCCTCAAAGC	TTATAACCAC	CTCCTGTGTA	TGTGTTTTAG
165781	GGAGGGAGGA	CACTGCTATT	ATCCCCATTT	ACAGATGGAG	AAACCAAGGT	GTGAAGACAT
165841	TAAGTAACGT	GCCCCAAATT	GCCCATCTAG	TAAGTGACAA	AACTCAATTT	CAACATAAGC
165901	TGGTTCCTTT	TCTTACTACT	TGGTGGA AAA	GTAATTCAAA	TGGGAATATG	ATCATCGCAG
165961	TTATTAGCTG	CTCCATGGAG	TTTAAGGAAG	AGCTGCCATG	AGCTGAGTGG	TGGTCATGAT
166021	TGACATGTCC	TTAGAAGGAC	TTAGAGCCTT	CATACAAGAC	CACCTCTGCC	TCATGGAGGA
166081	CAGAATAAGG	AGCCTGACAC	TGGAGACAAC	ATTTTCCTCA	AATTTAGGCA	GGACAGAGAA
166141	GGAAAAAGGA	CATCAGGACT	ATGCCCATTG	CTCCATGCTG	CCAACAGCAA	AGTCCCACCT
166201	TCCTTAATAT	GCTTCTGGC	AAGAAATCTG	GATGGTACAC	AAAACCTCTC	CCTCTGCTTC
166261	ACCTTCCACA	ACCAAGCATT	TCCAAATCTT	TGACTCTTCT	TCCTGAATCG	TGCTTAAAT
166321	CTGCCCTCTC	CTCCCTTTCT	TATACGGATA	GTTTGAATTT	TACTCCTTGA	TATTCCTTTT
166381	ATCATAGACA	TGCCACAGTA	GCTGGGCAGT	GTGGTTCATG	CCTCTAATCC	CAGCATTTTG
166441	GGAGGCTGAG	ATGGGAGGGA	GACCAGGGT	TTGAGGCCAG	TATAAGCAAG	AAAGGCAGAC
166501	CATGTCTCTA	CAAAAAATAA	AAAAATTATC	CAGGTATGGT	GGGCGATCCC	TGTAGTCCTA
166561	GCTACTTGGG	AGGCTGAGGT	GGGAGGATTG	CTTGAGCCCC	AGAAGGTTGA	GGCTGCAGTG
166621	AGCCGAGATT	GCACCATTGT	ACTCCAACCT	GGGATACAGA	GCAAGACCCT	ACCTCGAGAA
166681	AAAAAAAAAA	AAAAAAAAAA	AAAAGTAGAG	GTACCAGAGT	GATATTTTCA	ATGTCACTGA
166741	CCCTTCATTG	CCCAAATGAA	AATCCCCCAA	TAGGTGTTCA	ATTTTACGT	GTCCTTCAGG
166801	AGTTACTTCT	AAGATGAACC	ACTCTCTACC	CTAAATGTCC	CTCCCCACCA	CCAAAACCAG
166861	GGACCTCCAG	GCAGACATTT	TTGATGGTTT	GTTTTCTTTA	CTAGACTGTA	GATACCTAAA
166921	AGGTGATGGG	TCTTTCTTCC	CTGTTTTTCA	GCCCTACTGC	ATGGCTTTAC	ATATTGTGGT
166981	TTTTCAAATG	ATATTCATGG	TGTGAAACAA	GAAAAAATGC	GGGTGTTTGG	TTTGAGAACA
167041	ACCTGTCTTA	AAGCAAAAAG	AAATTCATCA	TAACACAAAT	GGATAGAGAT	AAGAGTCCAA
167101	CCATCCCATT	GAAGGTCAGG	ATGGACAGTC	TAGATAATTG	AGCAAGAAAT	CATCATAAAC
167161	TATTTTTCAG	AAGAATGACA	TGATGAAAGC	TGTATTTCCA	AGTCATAATG	TTAGGTTTCA
167221	AGTTAAATCA	TCTCAGCTCC	TGGGGAGCAG	GATAAGACTT	GGTACTTACC	AAAGCTCCCG
167281	GGCCCACACA	CTCACCTTGT	AGCCCTGGCA	TACGTCTTCA	ACAAGAGCTG	TGGTGTGCCC
167341	TTTGTGCTGT	GGTGCCCGCT	CACAGCGCCA	GCAGATGAGC	TGCCCCCTGT	CTTCGCAGAA
167401	CAGGTGGAAC	TGCTCTCCGT	GTTCTTCACA	TGACATTTCT	TGATCCGCT	CTTTGAGGCG
167461	TTCAATGAGG	CTTCCCAGCT	GCTTGTGGG	TCGGAGGCTA	TCCATATGAA	ATGGAGCCCG
167521	ACACTGGGGA	CAGCAGAATG	TCTCCTGCCT	CAGTTGCTTT	TGGCTTGGGT	TTTTAAAGAA
167581	GTCTGTTATA	CACAAGTGGC	AGTAGCTGTG	TCCACAGTTG	ATGCTTACTG	GGTTCGTCAT
167641	CAGGCTCAGG	CAGATGGAGC	AGGTGGCTTC	CTCCATCATC	TTCTTGGTGC	TGGTGGTTGA
167701	GGCCATAGCT	TTTATTGAAA	AGCTCCAATA	TTGGCTCTAG	AGATGGAGAT	GAAGCAGCCA
167761	GAATTTTCCA	CCGTGATGAA	AATACACCTC	ACCTGCACCT	CTATGTGATG	AGCTGGCTGC
167821	AACTGACTTC	CATAGGTCTT	GAAGGTTTTT	CTTCCAACCC	CTATTATCTC	ATTTTGTATT
167881	GAAGAAAAGA	GGACCTAAAA	GGAAGAAGTT	GAGGCTGAGG	TTGTTTGGGC	CACGTTTGAG
167941	AACTGCAACC	CAAGTGCAGA	GTTTCAAGTT	GCCCTCATT	GCAAGCAGTT	ACAAGTGGTT
168001	GTTTAGAGGA	AAAAAAGCAG	TTTTAAAGCA	GTTTTAAAGT	TGTTTGCCAA	GAATTTACAT
168061	TAAAATAGCA	TAAGCTTTTG	ACTGGCTATA	CATTGTTCTT	TGTATTACAA	ATCTCGGGAA
168121	TATGTAGGTA	ATAGATGAGG	CAGCCAGTCA	GGAACAAAAT	GCTTTTAAAC	ATGGGGTCTT
168181	AACTGAAGAC	CTATACTCCT	GCCTCACTTG	TCCTGATAAA	TTTTGCATAC	CTCACATAGC
168241	TCAGACTGCT	CTAAATTATT	TCATTATTTT	TCTTTTCTCA	GTCTTCTAAC	TTTTTTTTTT
168301	TTTTTTAATG	AGACGGAGTC	TCACTCTGTC	ACCCAGGCTG	GAGTGCAGTG	ACGCTATCTC
168361	GGCTCACTGC	ACCTCCGCCT	CCCGGGTTCA	AGCGATTCTC	CTGCCTCAGC	CTCCCGAGTA
168421	GTAGCTGGGT	CTACAGGTGT	GCACCACTAC	GCCCAGCTAA	TTTTTGTATT	TTTAGTAGAG

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168481	ATGGGGTTTC	ACCATGTTGG	TTGGCTCGAT	CTCTTGACCT	TGTGATCCAC	CCGCCTCAGC
168541	CTCCCAAAGT	GCCAGGATTA	CAGGCATGAG	CCACCGTGCC	CAGCCTCTTT	TTCTTTTCTT
168601	ATAAGACAAG	TTCTCGCTCT	CTTGCCAGG	CTGTAGTGGA	GGGCAGTGGC	ATGACCACAG
168661	CTCACTGCAG	CCTCGACCTC	CTGGGTTTAA	GCAATCCTCC	TGCCTCACCC	TGGCAGAGTG
168721	GCTGGGACTA	CAGGTATGTG	CCACCATGTC	CAGCTAAAGT	CTTCTCTCCA	GAAAGAAGAA
168781	ATGCATTGGA	ATTTAGAGGA	TACACAAACA	TCTAGCTGTA	TAGCTAATAC	AGTAGCCACT
168841	ATCATGAGTA	GGAATTTAAA	TTTAACTTAA	TAAAAATTAA	AATGAAAAAA	TTCAGTTTTT
168901	CTGTTCCAGT	TGCCACATTT	TGATTGCTTA	ATAGTTGCAT	GTGACTAGTG	GCTACATAAC
168961	AGCCTCAATA	TACAACATTC	TGTTATCACA	GAAAGTTACC	TTGGACCAAG	TGCTGGGAGA
169021	AGCAATGCAG	GCTTCCTCAC	AAAAGCTGTA	AAAGAGAGAA	CTCAGGGAGT	GTGAAACTCT
169081	TTCCTATTCT	AGTTAACTTC	AAGAATAATT	GTTACCAGGC	CAGCACGGTG	GCTCACGCCT
169141	GTAATCCTAG	CACTTTGGGA	AGCCGAGGCG	GGCAGATCAC	CTGAGGTCAG	GAGTTTGAGA
169201	CCAGCCTGAC	CAACATGGCA	AAACCTCATC	TCTACTAAAA	ATACAAAAAG	TTAGCTAGAT
169261	GTGGTGGTGC	ACACCTGTAA	TCCCAGCTGC	TCAGGAGGCT	GAGGAAGGAG	AATGACTTGA
169321	GCTCCGGAGG	GGGAGGTTGC	AGTGAGCCCA	GATTACACCA	CTGCACTCCA	GCCTGGGTGA
169381	AAGAGCGAGA	ATCTGTCTTA	AAAAAAAAAA	AAAGAATAAT	TGGTACCAGA	ATTACTCTTT
169441	GTAATTAGTA	GTAACACTTA	TGCAATTGGG	TGATCTGTGA	CAGATTCCAT	TGAAGGAGTA
169501	TGGGGAGCTT	CACCCCAATA	TATGACTCCC	TGGTATAATG	AGTATTTTGA	ATTAAAGGCC
169561	CTTAGAGATC	AGCAGATGCT	GGAAGAGACT	TTTCCCCTAT	CTACATAAAG	ACCAGTCACA
169621	CTAGACAAGA	AGAACAATTG	TTTTTCCTTC	CAACCCCTAT	TATCTCATTT	TGTACTGAAG
169681	AAAAGAGGAC	TAAGAATGTA	ACCAGACCTA	ATCAGACACT	TTCACAAAAT	AATGTCTGTC
169741	TCTCAGGCTC	ATTCATTTTC	CAAAGAGAAC	CATTTACAAG	TTAAACTCTG	TTCCCTCCATT
169801	CATTATCCT	CCCAAATATT	CATTTATTCT	CCCTAGTAAT	CATTTACTGC	CCCTCAAAGA
169861	ATTACCTATA	TTCTCCTGAT	ATCACCCCTC	CCCTCTGAAA	TAAATATGTA	TACATGTATA
169921	AACGTTATAC	ATACATATTT	ATACAGTATA	CATACATATT	TATACATACA	TACATATGCA
169981	TACATATTTA	TATTTATGTA	TTTATACATA	AGTATTTATA	AATAAGGCTA	TATAAGTATC
170041	TACCCCCATT	GGCAGAGGGG	GTAATCACTC	TGTGATTCTA	GCCCATGTAC	TTGTTAATAA
170101	ATTTGTATGC	CTTTTCTCCA	ATTAGCCTGC	CTTTTGTGAG	TCGATTTTTC	AGTGAACCTC
170161	AGAAGGCAAA	GGGGAAGTGT	TCCCTTGGCT	CCTACACCAT	CATGACAATA	AAATTTGACT
170221	CCACCTCGAC	CCCCCCCATC	CCCCACAAAG	AACAACAACC	AACACTGGTT	AATAAGGTCTG
170281	GTTGTTTTTT	GTTTGTGTTT	TTGTTGTTGT	TGTTTTTGCT	TTCAGGAGCA	GAGGTATAAT
170341	AGGCAAAAGA	AAGAGAAAGG	AGAATAGTGA	ATACCTCTTC	TGCAGAGAGG	GGTGCCTAAG
170401	TGGGACTTCC	CTGGCTAATA	ACGTCTTGCT	AGAGACCCAA	CCAGGAGGAT	AATGGAAGCA
170461	ATCAAGGCAA	CCAGAACAAC	CAGAAGAACC	GGTTTATCCT	TTTTGTGCCC	TCTCCCTAAA
170521	CTGAGGGAAT	AAGAATTGGA	AAGAAGGCTG	CAGAGCAGAG	GGTTTGTCTC	TGAGGAGCAG
170581	TTATTTCTAT	GGGATCAGAG	CTCCTGCAGA	ACTGGGGAGT	TTACTTTTAC	TATCTCTTCT
170641	CCAGGACAGG	ACCTATCTCA	AGAGACATGT	TCAGAGTGAT	TGCAACATAA	AGAGTTTGCA
170701	GACCCAAGGA	GGTAGGGAAG	GCAGAAAGAA	GATGGGGGAG	GCCAGGGATA	GGCAACAGAG
170761	GAGTGACCAG	GAGCGAAAAA	GCCTGCCTCT	TCTGAGAACC	TAGCTGGGCT	CTCCCTGTAC
170821	CCCCGATCCC	TCCCCCCCCG	CCGCCCCCAC	ACCCCTACTC	CTGGGAGCTC	CTCTAGGACA
170881	GGGGCAGAGT	CAGGAGGAAG	TTTGAAGAGT	GCCTAGAATA	AAAAACAGTA	ATTTAACTAC
170941	AATTACCGGG	TAGGCTGTTT	TCCTCTCACA	ATTTGATCAG	TCTCTTGAAG	CCACACAGAA
171001	TTTCTTCTGA	AGACGTGTAT	TCCTTGGCAG	GCTATTTCTT	CCAGTGATAC	ACCAGGCCCC
171061	TCTCTGCTGG	GGTCACTGCT	CTTCTGGGGA	GATGGGGCTC	CCCTCCTTCC	AAGGCTCCAG
171121	GGTTCCTGTC	CTGGGCCCCA	CTCATCTAAG	TTCTGAATCT	TCTGAGATTT	GGTGTAAGT
171181	CTGGTGAAAG	AAAGAGCAGG	AAAGAGGTGA	GAGCTGTAAA	ACAAAGAAAG	TCCTGACCAT
171241	TTTCAGAGTT	GGAGGGGCCC	TGCTGTCACG	AAATATATTC	CCCACCCCAT	TTGCCATCAG
171301	TACACACTCA	CATATCCACT	GAGAAAACTT	TAGCCTGGAC	CTTTTCCGTA	ACCTTCACTG
171361	CTCAGACACT	TACATATTCG	CTGCTAGTCC	CCTCTGTTGC	TGCCACTTCC	TGGGTCAGGA
171421	AGTTAACTCA	GACCGGATTA	AACTGAGAAG	TGAAACTACT	GTGGGAGGCG	GGGCTCATAA
171481	GATTTAGGAG	AAAAGTAGTG	ACGTTGTTCA	TATCATTTGC	ACTCCGCCTC	TCCGGTAAAG
171541	GAGGGGGAAA	CGTAGGAAGA	AAATATCCTT	CTTTTACAGC	AATAAAAAGA	AGGAACCAAT
171601	TAATAACCTT	GTAAACTATC	ATGTGACCCC	AACACAGAGT	ATCTAAAAAC	AGGAAGCCTG
171661	CAGAGGTTCA	GTTACACAGAC	TCTGATTTGA	GATCTTTCTA	CTTTTGCCAC	CAACTCCCTT

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171721	GGGAGTCCTT	AAGCCTTCCT	AGCTGATGTT	ACTTCTTTTG	CTATTTATGG	GTTGCTTGTG
171781	GTTCTATAAC	TGCTCTGAAG	GGTGTGGTGG	AAAAAGGGGT	GGTAACAGCA	GTAGGACTCA
171841	TTGGCATCAC	AAAATTCATC	TGAGTCAGCT	TTCTATTCTT	CTCTGTCCCG	TTCTGTGTCT
171901	TGTTTTTCTC	CTTGCTGTCC	TTCTGCAGGA	CTCAGATCTT	CTTCAATAGC	GAGGGTCAGC
171961	CAGGATAGAA	AATGGGAGTC	ACTAGTGGCC	CAGCAGTGAG	TGCCCCCAGC	TTAGAGCTGT
172021	GTGGGATCCC	TGGGACCATC	ACTCTGCTTT	GTGCTTTGTG	GAGAAAAGGC	TGTGGGGTCC
172081	AGGGTCAAGT	CCTTAATGAC	TTAGCTCCAG	CTTCTCCACT	TCAAAATGAA	AGGAAAAGTA
172141	CTATCACCAC	CCGTTAGAAT	TATTATTTCA	TGGGGAAAAA	AGATGGATTA	CTATCTCACA
172201	ATAAGAGCTT	GTCACATTTA	TAAGTCTCAG	GTGTAAGAGG	CATTTATGAT	AACAACATAA
172261	TAAATGCTGG	CTTAAGTAGA	TGCAGTGGTC	CAAGGGAACC	AGTAAGGGGA	GCTCAGGACA
172321	CAGGTGGGAG	GAGAAATTAA	ACTTGAATTC	TGGGAGCCAC	TGGCCTGTCT	GGGCCCCCTG
172381	CCTGCCTGCT	GACCCTGATA	GCCAATGGAA	CATGGAGTTT	GGCCCAGCTG	CAATCCCTCT
172441	GGTCCAACCTA	CTCAAAATAA	AGGCAAGATT	GGGAAACACG	TTCTTTTCTT	CCTATACCAA
172501	GCAGAAGACT	CTTCAGCACT	GCACCCTCCT	GGGTGCTCAC	AGAGCCTTCT	GTTGTTTGTG
172561	CACCTACGAT	TCATCATGCC	CTGGCATGAT	GGTTGCAGAC	CCCATGCATA	GCATGGGACA
172621	TTCTACTCCT	GAGGCAACCA	GCACACAGAG	AGAGGAGAAA	GAATGAGCCC	CTGAATCCTT
172681	GGTCCCACGA	TGAGTCCTTG	CAGATATCTA	CAACTTTCAT	TGTTGTGGAT	GTGACTCTGT
172741	ACCCAGGCAT	GGCTCATTCC	AGATCTGTCC	TATTGTCAGA	GGTGTTCAAA	CCAGAATGAC
172801	TCCATTTTGA	ATGGGGGCTA	GGTAAAATAA	GGCTGAGACC	TACTGGGCTG	CATTCCCAGG
172861	AAGTTAGGCA	TTGTAAGTCA	CAGGATGAAA	TAGGCAGTTG	GCACAAGACA	CAGGTCATAA
172921	AGATCTTGCT	GATAAACACAG	GTTGCAGTAA	AGAAGCTGAC	CAAAACCCAC	CAAAATCAAG
172981	ATGGCAACAA	GAGTGGCCTC	TAGTCATTCT	CATTGCTCAT	TATACACGAA	TTATAATGTG
173041	TTAGCAAGTT	AGAAGGCATT	CCCACCAGCT	CCATAGTGGT	TTATAAATAC	CATGGCGATG
173101	TCAGGAAGCT	ACCCTATATA	GTCTAAAAAG	GGGAGGAACG	CTTGGTTCTG	GGAATTGCCC
173161	ACATCTTTCC	CAGAAAACAT	ATGAATAATC	CACTCCTTGT	TTAGTACATA	ATCAAGAAAT
173221	AACTGTAAGT	ATCTGTATTA	GTCCATTTTC	ACACTGCTGA	TCCAGACATA	CCTGAGACTG
173281	AGTAATTTAT	ACCAGGAAAA	AATGTTTCAT	GCTCTTACAG	TCCCACGTGT	CTGGGGAGAC
173341	CTCACAACCA	CAGCAGAAGG	CAAGGAGGAG	CAAGTCAGGT	CTTACATGGA	TGGCAGCAGG
173411	CAAAGAGCTT	GTGCAGGGAA	ATTCTTTTCT	ATAAAACCAT	CAGGTCTCAT	GAAACTTATT
173461	GACTATCATG	AGAACAGCAG	TATAAATTAC	TCAGGGAAAG	ACCTGCCCCC	ATGATTCAAT
173521	TACCTCCAC	CAGGTCCCTC	CCACAATATG	TGGGAATTTA	AGATGAGAGT	TAGGTGGGGA
173581	CACAGCCAAA	CCATATCAGT	ATCCTTAGTC	CAGAAGCTGA	TGCTCTGCCT	GTAGACTAGC
173641	CGTTCTTTTA	TTCTTTTACT	TTCTTGCTTT	CACTTTACTG	TGTAGACTTG	CCCCAAATTC
173701	TTTCTCACAC	GAGATCTAAG	AACCTTCTCT	TAGGGTCTGG	GTTGGGACCC	CCTTTCTGGT
173761	AACACTATCA	AAGGATCAGG	AAAAGGAAGC	TAGTGAATGC	TAAAAAGGAA	ACAAACTACC
173821	ATTACCAATA	ATAACAGCAA	GACAAAAGCA	AAACGGATTG	TGACAGCTGT	CCCATCTCAC
173881	ACCTGTTTCC	CATTGCAGGA	AGGAGGGGCT	GGTTCATGCA	CAGAGTGGCC	AATATTAGAA
173941	GCAGAGATGG	GGTGCAGATG	AGACTTCAGG	AATATGTTGA	CAAAGGCAGG	CCTAGGGAGA
174001	AATCAACCTG	AACTATCCCC	AAGGAGGAAT	GCATTATCTC	TAATATGTAA	AGTTAGGCTT
174061	GATCCTGTGA	TTATGGGATA	TAGGAGTCCA	AAGACTCACA	ATGGGAAGTA	GGTCACTAGA
174121	GTCTCCTTCA	GAAGCTCTGT	ACTGTGTGTT	CCCCTGTGG	GCAAGAGTCA	GCACTCAGCT
174181	ATTCTTAGAA	TGCCTTTCCT	CAACTCCTTC	AGATTTTGCC	TCTCAACTAA	CCCTATCCTG
174241	ACCACTTGTT	AGCAAGTGTA	CCCCTCTCTC	CCTCCCAAAC	ATTTTCAAAT	CTATTTTGTT
174301	CCCATGGCAC	TTATCACTGA	ATATTTTACT	AATTTATTTT	GTTTAGTGTT	TGCTTCCCTC
174361	ATGAGAAATG	AAAGGGATGG	ATTTTTTTCA	ATATTGTTCA	CTGATGAATC	CCAGTAACTA
174421	GAATATTTCT	AAGCATAGTG	ATGTGCATTA	AATCAAAGAG	TAACTTTCTG	AATGCACTA
174481	AACACACATC	ACAAGAGGTG	TGTGCACATA	TGTGCATGAT	GCACGTAGTG	TGGTGTGGGT
174541	GTTGTGTGGG	GTATGTGGTA	CTGTGTGTGC	TGTGTGTGGT	ATGTGATACA	TAGTTTGTGT
174601	TAGTGTGATG	CATGTGATGT	GGTATGTGTG	TGCGTGTCCA	TACATATTAG	GGGTGGCGGG
174661	GATGTTAATA	TGTCAAATGG	TACTAGAAAG	TATCAGAACT	CATGGTGCTT	ACTGGTTTCC
174721	CAGAGAGCTG	CTTCTCTCCC	ACCTGTAGGA	TATACTGATG	GTTTGGACAG	AGAAGAAATA
174781	AAAAGAAGGC	TGTGACCTAC	TGGGCTGAGG	AAATAAAAAAC	GAAAGTAAAA	GAAGAGCTGG
174841	GAAAAGAGAG	TGGAGGGGCC	AAGGGAAATT	TCCCCTTTGG	CTTCTGGGGA	AACCTTGCTG
174901	AAAAATCAAC	TCACAAATTT	ATTAACATGT	ACACAGGGAG	AACCATAGAA	TGATTATCCA

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174961	CTTCCCAAGA	GGGCTTAAAA	GCTTATATAT	TATCCTGGCA	AAACAGATTA	TGGGAGGGGA
175021	AGAAGAGAAA	CTCTGTTGAT	GGGATTACTG	TTGCGGATTT	TTGCTCCTTC	GCTCAGCTAG
175081	GTCCGGGTTT	TTGTCTCACA	GCCAGGAAGA	ATTAGGCATG	CAGCCATCAA	AGAATGAGTG
175141	GAGTAGAATT	TATTAAGTGA	AAGGAAAGCT	CTCAGCAAAG	ACAAGGGTCC	TGAAAGCAGA
175201	TTTCTGGTTT	GCTCTTCACA	GTTGAATACT	AGGGCTTAAG	ACTCAAATTC	CTGACAACCTC
175261	CACCCTGTCC	TACCAGTGCA	TGCAGGCCTT	TAGACTGAGC	TACTCCATAT	TGATTAATTT
175321	CCTGAACGTG	GCATGTGTTA	AGGAAAGGAA	TCATCCACTG	CAGGCATGTT	TAGGCAAGCC
175381	CCCTGTGCAA	GTTCCCTTAT	CTGCACAAAA	CATCCGGTGT	AAGCACTTGT	GGGGCAGGTC
175441	AGAGGTTCTC	TGGGTACCAT	TCCCTTACTG	TCTGCCTAAA	GCAAGCTGGC	CAACTCCTTT
175501	CATTACTAGG	GAGAGTAAGT	AGATCAGGGA	ACAGAGATTA	ACTTGAACAT	TATCTTGTGA
175561	AAGTCCGTTT	GGGCATGGTT	ACATTCTTGG	TCTTACAGGA	AGGGTAAATA	AAAATAATTG
175621	CTCTTTTTTG	TGGGTCTGGA	TCTTAGGTAG	ATAAAGAAAC	TTTAATTCCA	CGATGTGTTT
175681	TGGTAGGGAT	AGTTGGTGGC	AGGGATGTCA	GAGAGACTTT	GAGGCTTCTT	CAGTTCAATA
175741	TGACCAAGGG	CCATATATTA	GGGTATCAAT	TTCTGAGCCC	CAACAAGAGC	TTAGGAGAGA
175801	TGTGATAGCA	TCACAGTGTG	AAAGCAATTT	TTTGTGTTGT	TTTAGAGACA	GGCTCTTGCA
175861	CTGTCACCCT	GGCTGAAGTA	CAATGGTACG	ATCACAGCTC	ACTGTAATCT	TGAAGTGGGT
175921	TCAAATGATC	CTCCCATCTA	AGCATTTCAA	AGTGTGTTGG	TTACAGGCAT	GAGCCACGGT
175981	ACCCAGCCTG	AAACTGCACC	CACCTTCTGA	TAACTTTTTC	AAATGACTAA	AGGGGAGAGA
176041	GTAAGCACTA	CTCAGAGGTA	GGAAGAAAGG	ACACAGGATT	ATAGGATTAA	AACAACAACC
176101	ACCAAAAAAA	ACCAGACCGG	TGTGGTGGCT	CACACCTGTA	ATCACAGCAC	TTGGGGAGGC
176161	TGAGGTGGGG	GGAGTCACTG	GAGGCCAGGA	GTTTCGAGACG	AGCCTGGCCA	ACATAGCAAG
176221	ATGCTGTCTC	TATTAAAAAA	AAAAAATACC	TGCCTTGAGC	TAATCAGAAT	CATGGACCCT
176281	GACAAAGGAT	GTCCCAAAGT	AAGTCTTAGC	ATTTTTTTTT	TTTTTTTGAG	ACAGTCTCGC
176341	TGTGTTGCCC	AGGCTGAAGT	TCAGTGGCGT	GATCTCGGCT	CACTGCAACA	GCTGCCTCCC
176401	AGGCTCAAGC	AATTCTCCCT	GCCTTCAGCC	TCCCAAGTAG	CTGGGATTAC	AGATGCCAC
176461	CACCACGCCT	GGCTAATTTT	TGTTTTTTTT	AATAGAGATG	GGGTTTTGCC	ATGTTAACCA
176521	GGCAGGTCTT	GAACCTCTGA	CCTCAAGTGA	TCTGCCCACC	TTGGCCCCCTC	CATAGTGCTG
176581	GGATTACAGG	CGTGAGTCAC	TGCACCCGGC	AAAGTCTTAG	CATTCTTTAC	AAACAGTTTG
176641	TACCCGTATC	TCTAAAAGGG	AGTAGTGAAT	TTCAACCCAA	AATGTGGCTT	CCTGATATAA
176701	TGAGTATTTT	GAATGAAAAA	CTCTTAGAGA	TCAACAGACA	CTAAAGAGAC	TTTTCCCTAG
176761	GTACATAAAA	ATAGGATGGC	CCCACCAGCG	AGAACAATTG	TTCTTTTCTC	CCTCTCTGTT
176821	ATCTCATTGT	GCATTATAGG	AAAGACCAAG	AATGTAACCA	CACCTGAACA	GACCCTTTTA
176881	TAAGATAATC	AGTCTCTAAG	CATCATTTAA	ATTCCAAGGA	GAACATTTTA	CAAATTTATC
176941	TGTTCTTTGA	TCCAATTAGT	CTCTCCTGGT	AGTTACATAT	TGCCCCCTCAA	CAGAATTCCT
177001	CTTCTTCTGT	TTCCCATAAAC	CTATTTTGCA	AGGATCAAGC	CCCTGTTATT	TCTTCAACTT
177061	CAAGGTGGCA	TATAAGCTTC	TAAATTCCAC	TGGGATATTG	GTACTATGTG	GTAGAGGAGA
177121	ACCACAGAGT	AATTAAATTG	TAAAGCCTTT	TATCTTATGA	ATCTGCCTTT	TTTTGTGTTT
177181	ATTTTTTCAGC	AAAACCTCCA	AGGGCAAAGG	TATAAAACAA	AAATAAAATT	CTAAAGCCCC
177241	CCAACCATCT	GAATAGACTT	TCTCTTCAGT	CAGGCTTCTT	AAAATGTAAAC	CTGAAAGACT
177301	GGCTCAGGCC	ATTAAGGGAA	GTGGGGGTTG	AACATGCCTC	ATTATTCCTC	TCTGGCATT
177361	ACATCAACAC	AGCTTTTAAG	TCTGATAAGA	AACATTTTAC	AACCTATTCT	CTCTGAAGCC
177421	TGCTAGCTAA	AAACTTCATC	CCATAGTACA	ACTTTGGTCT	TCACAACCTG	TTATCACAAC
177481	CTAGTGCTCC	TTTCTATTAA	TCCCAAATCT	TTATACAAAC	TCAACCAATT	GTCATCACCT
177541	CCACCCCACT	CCTCCGCTGC	TTCCAGTTGT	CCCGCCTCTC	TGGACCAAAC	CAGTGTACAT
177601	TTCTTAAACG	TATTTGATTG	ATGTCCCATG	CCTCCCTAAA	ATGTATAAAG	CCAAGGTGCA
177661	TCCCAACCAC	CTTGAGCGCT	TGTTCTCAGG	ACCTCCTGAG	GGCTGTGTCA	TGGGCCATGG
177721	TCACTCAAAT	TTGGCTCAGA	ATAAATCTCT	TCAAATGTTT	TACAGAGTTT	GGCTCTTGTC
177781	ATGACACAGA	TGACTGCTTC	ACTGAAGCCT	GCTCTGGAAG	TGAGTGGGGG	TTTTGCAAGG
177841	ATAATTTTCC	CCGGATAGCC	CCAGAAGCAG	CTAGTAATAA	TACACTTAAA	GGTACTTAAA
177901	ATGCATTGAA	CACCTGTTTT	GTGCCAGACC	TATGTCAACA	TTTGCTTTGT	GCCAGGCTTA
177961	TGCCAGTACT	CCTGATTTGT	TAATACATTC	TAAATAAAAA	TTCTGGAGTT	TCAAATATAA
178021	TAAGTAAAAA	ACAGAAAATA	AATAAAAAATA	TATAATAACT	GAAATAAAAA	TTTACTAAGG
178081	CTGGGGATGG	TGGCTCACTC	ACACCTGTAA	TCCTGTTACC	GGAAAGGGGT	CCGTCCAGAT
178141	CCAGACCCCA	AGAGAGGGTT	CTTGATCTC	ACACAAGAAA	GAATTCGGGC	GAGTCTGTAA

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178201 AGTGAAAGCA AGTTTATTAA GAAAGTAGAG GAATAAAAGA ACGGCTACTC CATAGGCAGA
178261 GCAGCTCTGA GGGCTGCTGG TCGCTCATTT TTATGGTTAT TTCTTGATTA TGTGCTAAAC
178321 AAGGGGTGGA TAATTCATGC CTCCATTTT TAGACCATAT AAAGTAACTT CCTGACGTTG
178381 CCATGGCATT CGTAAACTGT CGTGGCGCTG GTATGAGCAT AGCAGTGAGG ACGACCAGAG
178441 GTCACCTCTCA TCGCCATCTT GGATTGTTG GGGAGCAGTG AGGATGACCA GAGGTCACTC
178501 TCATCGCCAT CTTGGATTG GTGGGGTTA GCCAGCTTCT TTACTTTTTT CTTTTTTTTT
178561 TTTGCCCAGG CTGGAGTGCA GTGGCACGAT CTCAGCTCAC TGAAACCTCC AATTCTGAG
178621 TTCAAGCGAT TCTCGTGCCT CAGCCTCCCA AGTAGCTGGG ATTACAGGCA TGTGCCACCA
178681 CACCCAGCTA ATTTTTTATA TTTTAAATAG AGACCGGGT TCGCCATGTT GCCTACGCTG
178741 ATCTCCAACCT CCTGCGCTCA AGCCATCCAG CCACCTTAGC CTCCCAAAGT GCTGGGCTTA
178801 TAGGTGTGAG CCACCCACC TGGCCTAGCC GGCTTCTTTA CTGCAACCTG TTTTATCAGC
178861 AAGGTCTTTA TGACCTGTAT TTTGTGCCA CTGCCTGCCT CATCCTGTGG CTTACAATGC
178921 CTAACCTTACA GGAATGCAG CCCAGCAGGA CTCAGCCTTA TTTCACCAG CTCCTATTCA
178981 AGATGGAGTC TTTCTTGTTT AAATACCTCT GACAAGCCCA ACACCTTGGG AGGATGACAC
179041 AGGAGGATTG CTTTAGCCTA GGAGCTCAAG ACCAGCCTGG GCAACACAGT GAGACCCCAT
179101 CTCTAAAAA AAAAATACAA AAAAATTAGC CAGGCATGAT GGTGTGTGCC TGTAGTCCCT
179161 GCTACTCAGG AGGCTGAAGT GGAAGATGG CTTAGCCCA GGAATTCAAG GCTGCATTGT
179221 CAGAGCATT TGAACCAGAA TGACTCTATC TTGAATAGGC GCTGGATAAA ATAAGGCTGA
179281 CACCTGCTAG GCTGCATTTT CAGTATGTTA GGCATTCTTA GTCACAGGAT GAGATAGGAA
179341 GTCAGCACAA GGTACACATC ACAAAGACCT TGCTGATAAA ATAGGTTGTG GTAAAGAAGT
179401 TGGCCAAAAC CCATCAAAAC CAACATGGCC ACCAAAGGGA CCTCTGGTTG TTTCACTGC
179461 TCATTATATG TTAATTATAA TGTATTAACA TGCTAAAAGA CACTCCTACC AGCATCATGA
179521 CAGCTTACAA ATACTGCGGC AATATCTGGA CTTTACCTTA TATGGTCTAA AAGGTGGAGG
179581 AACCCTCAAT TTTGGGAATT GTCCACCCCT TTTTGGGAAT GCTCATGAAT AATCCACCCC
179641 TTGTTTAGCA CATAATCCAG AAATAACTAT AAGTATGCTT ATTTGAGCAG ACCACGCTGC
179701 TGTTCTGCCT ACAGAGTAGC CATTCTTTTA TTTCTTACT TTCTTAATAA ACCTGCTTTC
179761 ACTTTACTGT ATGGACTTGC CCTAAATTCT TTCTTGTGTG AGATCCAAGA ACCCTCTCTT
179821 GGGGTCTGGA TCAAGACCCC TTTCTGGTAA CATCTTTCTG GTGACCACGA AGGGACAATA
179881 CTGAGGAGAC TCTGAAGCCA AAGGAAACAG ACTACAGCAC CAACTGGCTG ACTTTGGGTA
179941 AGTGGTGGAG TCCCCGGGTA AAGGATAGGA TTGGGTTAGA GGTGCAACTT AGGGGAGATA
180001 GGGTCTCTCC TAAGACAGAG AGGGTTTACG TCCGCTCTTA ATAAAGGGCA AGAATGCTTG
180061 ACCGAACCTG GGTGTGAGAC CCACTTAGG AAGGCTACAG TCCTTAAGAT TTAAGGGGTT
180121 AGAGGCCCTT CTCAGTAAAG TCTCTCTTGG TTA AAAACGG ATTTAGCATT AGGGGATGTT
180181 AACTGCTATT CTGTTTGTAT TAATCTTCCC TGTGCTCTTT GCTGACAGCT ATGGGTGACA
180241 GGATTAGGCA TGTACAGGAT CACGGGACAT TGGGAACCTT TCTTCTCTCC AAAAGGGGAA
180301 GCTTGACAGC TGATAGGACT GTTGGA AAAAG ATCCCTTTGC TATGACAAGC AGCCGCTGTA
180361 ACTTTTGATT CAGTGTGTCT GCAATGGGTG GGTCTTTCTC TGGCCTCTGT GAACTCCTCA
180421 CCTTCCCAT CTCACCACAG GCAATGCTTT TCTCCCTTTC TCTCTTTTCT CTTTTCTGTC
180481 TTTCTGTTA CTTGAGACAA CCATCTTGCC CAGAGACCAT ATGTTGAAAC TCCTGGTCAG
180541 AAGTTTGATT AAAGATGAAA GGGCCTATCT GGGGGCAAGT TTGAGCCTTC CCAGTTAGAT
180601 ATTGGGTGCT AAGTGGAGTG GCCAATGTCT ATGTTTGTG ACATGTATAT TGCTCTGGCT
180661 GAAATGGAAA ACGTTAATTT GGTACTTTA TGTGGCCATT GGGCAGCATC TTACAAAAGT
180721 GAGAGACATT TATTTGCCTG TGGTTCCATG AAACAGAAAA AAGTTGGTTT TCTTTTGTGT
180781 CGTAGCTTGG ACCCAAGGGC TTTGCAGTGA GCAAGGTTGC TAGTGCTGCT CAGTGAAAGA
180841 GAACCCAGAA ACCTGGCATG CCAGCAAAAG GGTAAAGATT TCTTACCAGT CAGGCTTCTG
180901 GCCTCTCTCT CTTAGTGAAA ACTGAATGAA TGGTAAAAAT CACTGTTTAT CACCTCTGTA
180961 AAGTTTTGAT TAATGGGAAC AAGGATTTGT GGGGCTAGTC TTAAGCTGTA ATGAATCTGG
181021 TATACTTTGT GATATCAATT TGTCTTTCTG TATTACTCTG TCATAAAGAG GAATATGGTA
181081 GGATAGAACA TGGGCTCAGG ACTCCATAAG CCTGCTGTTC AAGCCAGCCC AGTAAACTGG
181141 TCCGTGCAA AGTTTATTAC AGGTCCCTGG AAAAAAAAAA AAATAAAAC TGGATGAAGT
181201 TTCTTCTCA TCTTGTTTTA TGTCCTTTGG AGCTTCACCT TGTAACCACG TGGCGGTACT
181261 TTCTCTTGGT CTCTGCCATC CAGGGAACAG GAATTTTGGG GTTTATGTAA TAGTTAACTC
181321 TAAAAATTAT CTCAAGCCAT TGCAAGCTCA AAATTGGCTG CTCTGGACCC CTTCTGGGAA
181381 GGGCAATGGA AACTAACCAG TGTTGTAGCT CAGCAGCTAA GGATTTGTCA TTTTATAATG

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181441	GCGGCCAAGG	TTCAATCCTG	GCTTAGGGAA	TGAGTACTTT	CTGATTGATA	TCTGTGTGAC
181501	CTTTACCATT	TGTTGATTCT	GTTCTCTTCC	CCTCCACACA	CTGTCTTGAG	TTTTCTCTCTC
181561	TCTGAGAACC	TGGGAGATTA	TCTTTGGTAA	AGTTCAAAAG	CCAGAAATAA	TGGCCGTGTG
181621	GGATGGCTAA	AGTTGAGTAA	TAAGAAACTT	AAAAGGACTC	CTTTTTTTTT	TGCTTTAGAG
181681	TGCTATGGTT	TATGGTTAAA	AGCTTAATTA	AAAGTGGATA	TTCAATCTCT	AAAAGCCTGG
181741	GACTCCTTGG	GAAAAGCAGA	GGAGGCACCA	CAGACCCCAT	TTTGGGAAAA	CCTCTGTTTT
181801	CCTCATGAAA	CCCCAGGAAC	TGGAAGTGGA	TAGATCCTTC	GCAAAATCTA	AGGCTCTGTT
181861	TGGCTTTGCA	TTATGTTATC	TGATGTTTTT	GACTTTTGGG	GGTATCAGAA	ATTACTTTGC
181921	ATTATGAGGG	AGATCTGGTG	TGTAATAACC	AGGTAGGAAA	TATACTTCTG	GGGATAGCTA
181981	AAGGCAATAA	TAGGTGAATA	CTTGGCTATT	TGCACCTTTG	GATCACAAGA	AGCATTCTCT
182041	TGACTACCTA	GAAGGTATGG	AAATGTCTCC	ATCCCCACCG	AGAGATAAGA	TTCCCAGGGG
182101	AGATGGCTGA	TCCCCAAAAA	GAGGGCTGAT	TCCCTCTTTT	GGGATCCAGG	ATTCTGGTATA
182161	AAAATGGGAC	CCTGGCCAGG	CACAGTGGCT	CACGCCTGTA	ATCTCAACAC	TTTGGGAAGC
182221	CTCAGAGTTA	TGAATGTCTC	ACCATACTGA	CACCTTGTGA	CTGAGCTCCT	CTCTACCCTG
182281	GACACAAGAG	ACCCTAATAA	TTAGACAGGA	ATATCATTGC	CCCTATTTAG	TCTGAAGAAG
182341	TTATAGAAGA	CGGATCTTTA	TCCCACTGCA	ATCCTTAGGA	TTAAGGGTTC	CCTGGTAAAA
182401	GGGAGTGGGA	AAATATGTCA	GAGGCATTTG	AATCAGAGTG	ACTCCATCTT	GAATAGGGGC
182461	TGGGTAAAAT	AAGGCTGAGG	CCTGCTGGGT	TAGGTTAGGC	ATTCTAACCA	GGAGTTTAGT
182521	CACAGGATGA	GATAGAAGGT	TGCACAAGGT	ACCCGTCACA	AAGACCTTGC	TGATAAAATA
182581	GGTAACGGTA	AAGAAGCCAG	CTAAAGCCCA	CCAAAACCAA	CATGGCCACA	AAAGTGACCT
182641	CTTGTCATCC	TCACTGCTCA	TATACACTAA	TTATACTGCA	TTAGCATGCT	ACAAGACACT
182701	CCCACAGTG	CCACGACAGT	TTACAAATAC	CATGACAACA	TCTGGACGTT	ACCTTATATG
182761	GCTTAAAACG	GGGAAGAACC	CTTAGTTCTG	GGAATTGTCC	ACCTCTTTCC	TGAAAAATTC
182821	TTGAATAATC	CATTAGTTTA	GCACATAATC	CAGAAATAAC	TATACGCTCTG	CTTATTTGAG
182881	CAGTCCATAC	TGCTGCTCTG	CCTATGGAGT	AGCCATTCTT	TTCTTTTATT	TTTATTTTTT
182941	AGATAAAGAC	TCGCTCTGTC	ACTCAGGCTG	GAGTCTGGAG	TGCAGTGACG	TGTTTTGGCT
183001	CACTGCAACC	TTCACCTCCC	GGGTTCAGC	AATTCTCCTG	CCTCAGCCTC	CCAACCTAGCT
183061	GGGACCACAG	GTGGGTGCCA	CCATGCCTGG	CTAATTTTTG	TATTATTAGT	AGAGATGGGG
183121	TTTCGCCATG	TTGGCCAGGC	TGGTCTCGAA	CTCCTGGCCT	CAAGCGATCC	ACTTGCCTTG
183181	GCCTCCCAAA	GTGCTAGGAT	TACAGGCATT	ACCCACTATG	CATGACCCAT	TCTTTTATTT
183241	CTTAACTTTT	TTTTGTTTTT	TTGAGACAGA	GTCTCACTCT	GTCACCCAGG	CTAGAGGCTG
183301	GAGTGCAGTG	GTGCGATCTT	GGTTCACTGC	AACCTCTGCC	TCCTGGGTTC	AAGCGATTCT
183361	TCTGCCCTAG	TCTCCTGAGG	AGCTGGGACT	ACAGACATGT	GCCACTACAC	CCAGCTAATT
183421	TTGTATTTTT	AGTAGAGACA	GTGTCTTGCC	ATGTTTGTCA	GGCTTGTCTC	GAACTCCTAA
183481	CCTCAAGTGG	TCTGCCTGCC	TCAGCCTCCC	AAAGTGCTGT	GATTACAGGC	ATAAATCACT
183541	GCGCTCGGCC	CTTCTTTACT	TTCTTAATAA	ACTTGTTTTC	ACTTTACTGT	ATGGACTAGC
183601	CCCAAATTCC	TTCTTGTGTG	AGATCCAATA	ACCCTTTTGT	GTGTGAAAGA	ATGTATTGCT
183661	GCTGTTTCAGG	CTGGAGCAAG	CTGGAGCTCA	TGCTGCTGCT	CAGACTGGAG	CATGCGTGAT
183721	CTGTGATCCC	AGTAAGAGGA	TCATGGTCAC	TCCAGCCTGA	ACGACAGCAT	GATATCTCAT
183781	CTGTAAGAAA	AAAAAATTAC	TAGAGGGCTT	TAACAGCAA	TTTGAGCAGC	AAAAAGAAGT
183841	AATCAGTGAA	CTCAAAGATA	GGTCAATTGA	AATGATCTAC	TCTGAAAAAC	AGAAAGAAGA
183901	CAGAAATGAAG	AAAAAGAAAT	AGAGCCTTAG	AGACAGGGGA	TACCATCAAG	CATACTAATA
183961	TATGCATAAT	GGGACTCCTA	GAAGGAGAAA	AGTGAGAGGA	CAGGGAGAGA	GAATGTTTGG
184021	AGAAATAATT	TCTCAAAGCT	TCCCATGTTT	GGCAAAAAAG	CATTAACTTG	CATACATATT
184081	TTAGGAGCTC	AATGAATTCC	AAGTAGGATA	CACTCAAAGA	GATCCATACC	TAGACACATC
184141	ATAATCAGAT	TATCAAAGAA	TGAAGAAGAT	GAATCTTGAG	AGCAGAAAGA	AAGGAACAAT
184201	TCATCACATA	CAAATAGTAC	TCAAAAGATG	TCTGGAGTAG	GTATACTAAT	ATCAGACAAA
184261	ATAAACTTTA	AGATAAGCAT	TGTTATAATA	AATAAAGAAA	GGTATTTTGT	AATGATAAAA
184321	GTGTCAATT	ATCAAGAAAA	CATAACATTA	TAAACATACA	TGCACCTAAC	AACAGAGCCC
184381	TAATATTTCAT	GAAACAAAAC	TGACAGAATT	GAAGGGAGAA	ATAGAAAATT	CGACAATAAT
184441	AGTTGGAGAC	ATCAATACCT	CACTAGTTAG	ACAAGATCAA	CAAAAAATA	GAAGCACTAA
184501	CACTTGAAAA	CACCTAACCT	GACCCTAACA	TAAATCTATA	GGTCACTACA	CCCCAAACA
184561	GCAGAATAAA	CATCCTTCTG	AAGCTCACAT	GAAACATTTT	TCAGGATAGA	CTGTATATTA
184621	CTTCATGAAA	TAAGTCTCAA	TAAATGTAAA	AGGACTATAA	TAATAGAGTA	TATATTCTCT

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184681	GACCAAAGTG	GAATGAAGAT	AGAAATCAAT	AACTAGGCTG	GGCGTGATGG	CTCACGCCTG
184741	TAATCCCAGC	ACTTTGGGAG	GCCAAGGCGG	ACAGATCACG	AGGTCAGGAG	TTTGAGACCA
184801	GCCTGACCAA	CATGGTGAAA	CCCTGTCTCT	ACTAACAAAA	TACAAAAATT	AGCCAGGCCT
184861	GGTGGCATCT	GCCTGTAGTC	CCAGCTACTC	GGGACACTGA	GGCAGGAGAA	TCACTTGAAC
184921	CCAGGAGGCA	GAGATTGCAG	TGAGCTGAGA	TCGCGCCACT	GCATTCCAGC	CTGGGAGACA
184981	GAGCGAGACT	CCGTCTCAAA	ATTAAAAAAA	AAAAAGAAAC	TAGAAAAATA	AGAACAAATC
185041	AAACCCAAAG	CAAGCAAGAG	GAAAATGAAA	AATTTCAAAG	CAGCCAAGAA	CAAAAGGCAC
185101	ATTATGTACA	GAAGAACAAG	TGTATAGATC	ACATATTTCT	CATAGACACA	ATATAAGCAA
185161	AAAGACAGTG	GAGCAAAATT	TTTTAGATTA	ATGAAAGACC	TACAATTCTG	TACCAAGCAA
185221	AAAAACTCCC	CCCAAATGAG	GGTGAAATAA	GACAATTTAA	TACAGAGAAA	AGAGGAAGGA
185281	ATTTATCTAG	TCATATGTGA	GAGTTTTATG	ATACATTTTG	TACTGTATAT	GTGGATGTTT
185341	TCTATTTTCAT	TTAAAAAATC	AACCGTGCAA	TTAAATGGTA	GATTGTCTTG	CTTCTTTTTG
185401	ATTGACACAG	TCATTAACCTA	AAATATTGTA	GTATTTTTTT	ATCTCCCTGC	CTAAAGGCAA
185461	TAAACATCTA	ATCAGCAGAC	TAGAACAATA	AAAAATATTT	TTTAAAGGTC	CTTTAGGCAG
185521	AATGATAAAA	GTCCCTTAGG	CATATTGAAA	TTCCTATTTA	TACAAAGGAA	TAAACAGTAC
185581	TAGAAATTGT	AACTATGTGA	GTAAACAGAT	AATATTTTTT	CTCCATAAAA	TGTGGTTGAC
185641	TATTTTCACA	AAAATAGTTA	ACAATGTAAT	GTGTGATTTA	TAGCATTTAA	AAGTAAAACA
185701	GGCCGGGCAC	AAAGGTTTCG	GCCTGTAATC	CCAGCACTTT	TGGAGGCCGA	GGCGTGCAGA
185761	TCACTTGAGG	ACAGGAGTTC	AAGCAGGCC	TGGCTAACAT	GGCAAAACCC	CATCTCTACT
185821	AAAAATACAA	AAATTAACCA	GGCGTGGTGG	TGCACGCCTG	TAATCCCAGC	TACTCTGGAG
185881	GCTGAGGCAC	AAGAATCACT	TGAATCCAGG	AGGTGGAAGT	TGCAGTGAGG	CAAAATTATA
185941	CCACTGTGCT	CCAGCCTAGG	CAACAGAGCT	AGACTCTGTC	ACACACACAC	ACACACACAA
186001	AAGAAAAGTG	TATGACAACA	ACAGTGCAAA	AGAAGTGGA	ATGAAAATAA	TGTTATTTTA
186061	TATAAGTGGT	ATACTTTTAG	ATGAACACG	ATAAATTAAT	GATGTATACT	ATAAACTCTA
186121	AGGCAACCAC	TGAAATAATG	AAACGAAGAA	TTATGGCTAA	CAAGCCACAA	AAAGAAATAA
186181	AATAGAATGA	GAAAAAATAT	TTAAGTTGTT	CAACAGATGG	GAAAAAAAAG	AGGAAAAAGA
186241	GAACAAAGAA	CAGATGGGAC	AAATGGGAAA	GTAATAGCAA	GATGATAGAC	TTAACTCTAC
186301	CCATATAGAT	TATCACACTT	AAGGTAAATG	ATCTAAATAC	TCTAATACAA	AAGCAGAGGT
186361	TGTCAGATTG	AATTAATAAA	ACAGACAACA	ACAAAAAAA	GCAAAAAAAG	AGCCACAACA
186421	TGCTGCCTAC	AAAAAATTCA	CTTTAATATA	AAGACACAAA	TAGTCTAGAA	CACCATCACT
186481	TTTAACCTTA	TTTACTCAAA	CCTCCTGATC	CCTATTTATT	TATTTATTTA	TTTATTTATT
186541	TATTTATTTA	TTTATTTATT	TTTGAGACAG	AGTCTGACTC	TGTTGCCCAG	GCTGGAGTGC
186601	AGTGGCACCA	TCTAGGCTCA	CTGCAGCCTC	TACCTCTCGG	GTTCAAGCGA	TTCTCTGCC
186661	TCAGGCCTCC	CAAGTAGCTG	GGACTATAGG	CACATGCCAC	CATGCCCAGC	TAATATTAT
186721	ATTTTTAGTA	GAGACGGGGT	TTTGCCATGT	TGGCCAGGTT	GGTCTCAAAC	GCCTGACCTC
186781	AGCCTCCCAA	AGTGCTGGGA	TTACAGGCGT	GAGCCACAGC	ACCCAGCTCC	TCTTCATTTA
186841	TTCTTGCTAC	GCTTCCTCCA	ATCCATTTTG	TGCATTTGAT	GATTTTGCCA	GTAACCTCTT
186901	TATTTTTCTG	GTAAAATTAC	TTATGGGTCA	CTGAGGACTG	GGATGTTCTT	TCTCTAGAG
186961	GGGGTTTG	TCTGCTTTTG	CCAGGAAGCT	GGGGTACCAC	CAGTCAAGTA	TTACTTTAAA
187021	CTCAATTCAT	GAATTGAGAC	TTTTTTTTTT	TTTTTTTTTT	TTACGCAGAG	TCCTACTCTG
187081	TCACCCAGGC	TGGAGTGCAG	CGGTGTGAAC	ATGGCTCACT	GCAGCCTCAA	CCTACTGAGC
187141	TCAAGCAATC	CTTCTGCCTC	ACCATTCTGT	ATAGCTAGGA	CTACAGGTGT	GTGCCACCAT
187201	GCCTGACTAA	TTTTTTTAAAT	ATTTTTTTTA	GAGATGGGGC	TCACTTTGTT	GCCCAGGCCA
187261	GTCTCGAGCT	CCTGGGCTCA	AGTGATCCTC	CCACCTTGTT	CTCCCAAAGT	GCTGGGGTTA
187321	CAGGCATGAG	CCTCTGTGGC	TAGCCAAAGC	TTTTTATTTT	TTAGCCTAAA	TGTGTATAAA
187381	AGTTGGCTTG	TGGTTACAAC	TTATCAGGAT	TGATGATCTC	TCTCTCTCTC	TCTCTCTCTC
187441	TCTGTCTCTC	CCCACCTCTC	TCACATCCCT	TGCTCTGCTG	AGAAGCAGAG	CAACACTTCT
187501	AGCAGTTTCC	AGAGAGTAGG	ATGGGATTAC	TTCTAGTTTA	CTTTTATCAT	CCTTTGGGAT
187561	CGCAGTATTA	CTGGGAGAAC	ACAAGTATCT	CTTATTAGAC	ATACCACCTT	TGTAGAATCT
187621	GGACTTTTCAT	TTTAGACTTT	ATTTGTTTTT	TACTATAAGC	AATTTAAGTT	ACAGATCTCT
187681	CTACACACTG	TTTAAGTTGC	ATCCCATGAA	TTTTGATGTG	CTTTATTGTC	ATTATTATAT
187741	AGTACAATGT	ATTTTGTAAT	TTTTTGATGAT	TGTTTGGGAG	AGATTGATTA	ATTAGAATGA
187801	TGTTTAATTT	CCAAATATGT	GTGTTTTTTT	CTACATTTCT	TATTTTTTATT	GATTTCAAAT
187861	TTATTTCTAC	TGTAGTCAGA	TTTAATAATT	CATTTATTTT	TATTATTTTC	ATTTTTTTAG

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187921	AGACAGGGCC	TTTCTGTGTT	CCCCAGGTTT	GTCCCAAACCT	CCTAGTCCCA	AGCAGTTCTC
187981	CTGCCTCAGC	CACCCAAAGT	GCTGGGATTA	TAGGCACGAG	CCACCCGTGC	ACAACCAACA
188041	ATTCATTTAA	AAAGTGGGCA	AGTGAAGTGA	ACAGACATTT	CTCAAAGAA	GGCATACAAT
188101	TGGCCAACAA	ATATATGAAA	GAATGCTCAA	CATCACTGTA	TTAGTCTGTT	TTCATGCTGC
188161	TAATAAAGAC	TTAACCTGAG	ACTGGGGAAT	TTACAAGAGA	AAGAGGTTTA	ATGGACTTAC
188221	AGTTCCACAT	GGCTGGAGAG	ATCTCACAAT	CATGGTGGAA	GGCAAGGAGG	AGCAAGTCAC
188281	ATCTTACATG	GATGGCAGCA	GGCAAAGAGA	GAGCTTGTGC	AGGGAAACTC	CCGTTTTTAA
188341	AACCATCAGA	TCTCGTGAGA	CTCATTCACT	ATCATAAGAA	CAGCATAGGA	AAGACCCGGC
188401	CCATAATTCA	GTACACTCCC	ACTGGGTTC	TCCCAGGACA	CATGGGAATT	GTGGGAGTTA
188461	CAATTCAAGA	TGAGATTTGG	GTAGGGACAC	AGCCAAACCA	TATAAATAAC	TAATCATCAG
188521	GGAAATGCAA	ATCAAACCA	CAATAAGGTA	TCATCTCACC	CCAGTTAGAA	TGGCTATTGT
188581	CAAAAAACA	AAAAATAACA	AATGCTGGTG	AGGATGTACA	GAAGAGGGGA	CTCTTATGTC
188641	CCACTGGTGG	AAATGTCAAT	TAGCATAGCC	ATTATGCAAA	ATAGTATGGA	AGTGAGGTAG
188701	GTTACATAGG	GTGGTCACAG	CCTCCCTTGA	AAGGAAACAA	GAAACTTGTC	AAATTGATGG
188761	AGAGAACAAA	TCTCTTGACA	TTACACAAAC	TGCATCTGGG	GCTAGTGGTT	AGAATATCCT
188821	CAGTCAAGGA	GGTAGAAGAG	CAGGAGGGAA	AATCCCTAAG	TTCGTGCAAG	TGCAGAAACC
188881	CACAAGCTGT	GTTCTCAGGT	TGACATATAC	TCATTTTAAT	AGTAAGAAAC	ACACCCTTGG
188941	GTAGAGAATT	AAAATGCTAA	TAATACATGT	GATGTATGTA	CTAGCGTGTA	TGGCAATATT
189001	GCATGCACAT	TCAAGAGACC	ACCCAAAACA	TATTTAACAA	CAATGCCCAT	TCCCACCCCC
189061	TCATGGATAA	TCACGTAGGA	CTCCCATAAC	GGGAGTTTCT	TCAGTGTCAA	TTGGTGCTGA
189121	AGTAGCCGAC	CCTGACTCTG	CTATCAGCGT	GTACTTTCAC	CTTGCAATAA	ACTCCTTTGC
189181	CTACTTTTAC	TTTGGACTGG	CTTTCAAATT	CTTTTGTGCA	GGGAATTCAA	GAATCTGAAC
189241	CAGCCTACTG	ACAACAGAGG	TTTCTCAGAA	ACCTAAAAAT	AGATCTACCA	GATGAGGCTG
189301	AAAATCTGCT	ACTGGCTATT	TATCCAAAGG	GAAGGAAATC	AGTATACAAA	GAGACACCTA
189361	CATCCCCATG	TTTATTGCGT	CACTCTTCAC	AAGAGCTGAT	ATATAGAGTC	AACCCTAAT
189421	GTTCATTAAC	AGACAAATGG	ATAGAAAATG	TGGCATATAT	ACACAATGAA	ATACTATTTG
189481	GCCATGAGAA	GAATGCAATC	TTGTCAATTTG	TGGCAACGTA	GATGAAACTG	GAGAACATTA
189541	TGTTAAGTAA	GATAAGCTAG	GATTGGAAAG	ATAAATACTA	CATGTTATCA	CTCATATGTG
189601	AAAGTAGAGA	AAAATTTTTA	GCTCATGGAT	TTAGAGAACA	GAAGTGTGGG	TACCGGAAGC
189661	TGGGAAGGGT	AGCAAGGAGG	GGAGGATAGG	GAGAGGTTGG	TTAATGGTGA	CAAAATTACA
189721	GCTAGATTGT	AGAAATGAGT	TCCGGTGTTT	TGCACCATTG	TAGGGTGCAT	ATGGTTAACT
189781	CTCATTTATT	GTATATTTTC	AAAAGCTAG	AAAAGAATTT	TGAATACTCA	CAACAAAATA
189841	AATGATAAAT	GTTTAAGGTG	ATGGATATAC	TAATTACTCT	GATTTGATTA	TTACACATTG
189901	TGTACACATA	TAAAAATATC	ACTCTTTATC	CCGTATATAT	GTACAGTTAT	TATATGTCAA
189961	CTAAAAATAA	AAGAAAAAAA	GAATATGATC	TATCATGATG	TATATATCAT	GTGTACTTGA
190021	GCAAAATGTG	CATGCAGATA	TTGTGTATAA	TGTTCTATAA	ATCAATTAGC	TCAAGATAAT
190081	AGATAGGATT	GTTTCAATCT	TCTGTGTCTT	TACTGATATT	TTGTCTAGTT	ATTGTATCAT
190141	TACCAAAAAA	AGGGTGTTAA	ACTCTCCAAA	TGTGATTGTA	GAATTGTCTA	TTTTGTCTTT
190201	TCTTTTCCAT	TTTTACTTTA	TGTATTTTGA	AACTCTGTTA	TGACATTTTG	CTATGTATTT
190261	TAAACTTTCG	TTATGTATTT	TGAAACTCTG	TTGTTAGAAT	CATACATTTA	TGATTATTAT
190321	GTTTTCTTGA	TGAAATGACA	CTTTTCTATT	GTCATTGTTT	TTGTTTTTTC	TGAAATGGAG
190381	TCTCACTCTG	TTGCCAGGC	TGGAGTACAG	TGGCACAATC	TTGGTTCACT	GCAACCTCCA
190441	CCTCCTGGGT	TCAAGCGAGT	CTCCTGACTC	AGCCTCCAAG	TAGCTGGGAT	TACAGGCATG
190501	TGCCAGCATG	CCAAACTAAT	TTTGTATTTT	TATTAGAGAC	AGAGTTTCAC	CACGTGGGCC
190561	AGGCTGGTCT	CGAACCTCTG	ACCTCAGGTG	ATCCGCCCCAC	CTCGGCATTT	TTATTTTATT
190621	TTATTTTTTT	GAGACAGAGT	CTCACTCTGT	CACCCAGGGT	AGAATGCGGT	GGTGTGATCT
190681	TGGCTCACTG	CAACCTCCGC	CTCCTGGGTT	CAAGCAATTC	CCATGCCTCA	GCCTCCCGAG
190741	TAGCTGGGAT	TACAGGCACA	TACCACCAAT	ACTGGCTAAT	TTTTGTATTT	TTAGTAGAGA
190801	TGGGGTTTTT	CTATGTTGGC	CAGGCTGGCA	ACTGACTCCT	TTAACAATAC	AAAATATCAC
190861	TCTGTCTCTG	GTAACACTCT	CTGTCTTAAA	CTCTATTTTA	GCTGTTATTA	TTATAGCCAT
190921	TTTAGTCTTT	TTATGCTTTC	TGTTTGCATA	GTGTATATAT	TTTAATATGT	TTATTCTCAA
190981	GTTATCTGTG	TTTTTATATT	TAAGATGTTT	CTCTTCTAGC	CAACGTGTTT	GGTTCTTGCA
191041	TTTTTAAGTC	GATTCTAACA	ATCTTTGCCT	TTCAATTGAA	ATATTTACAC	CATTAACATC
191101	TAACATTAAC	ATTTATTTTT	CTTTCCACAG	TACACTGGCT	AGCATCTCCC	ATATAATATT

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191161	GAACATAAAG	TGTGATAACT	GACATCCTTA	TTTCATTCCCT	ACTCTGAGTG	GAAAGGGCAG
191221	GGGTGGAGAA	AGCATTCAAC	AATTTGCCAT	AATTATAATG	CTTTTGTGTA	CACTGTTTTTC
191281	TTCTGCATTA	AAAAATATCA	TTACATTTTG	CATGAATTAT	TAGGAGAAAA	TATTTTCCAA
191341	TTTTCTGGA	AAATGCCATA	ACCACGTCTC	TCAATTTTGT	TTCCATCTTT	CTTCCACATT
191401	TTACATAACC	TACATAAGAG	ACACATTATC	AAGTATATTT	TACATGGCTT	CTCAGTGTCT
191461	TCTCTGTCTG	CTAACAGGTT	TACCAAGAGA	TGGCACTCTT	GTATTTCTGG	TGGCTATGTC
191521	CATATCGTTT	TGCCTTTAAG	ACAGCGTAAC	TACTTCTTTC	ACCAGTATTA	AAGACATGTA
191581	CATTTGATCT	GGTTCTTGTG	GATGATTTTA	AATGACTCAA	GCTAATAATC	CTAATTTTAC
191641	CTAAACACTC	CATTATTTTA	AAATGTATTG	CTTTATGCCC	ACAATAAACA	TTTATTGACA
191701	TTAGGCTGGA	CATTAGGCTT	CTCTATGGCA	GACATTAGGC	TGGACCCTAG	CCATATATCT
191761	ATTGAGGGAA	AAAAAATTAT	TTTCTATATA	AGTTTCCAGA	AAGCCAAGAT	GTGTTTTTAA
191821	AACAAAACAA	AACATTACAT	TCTAAATGCT	GTAACAAGAT	AAGAAAAAGT	GTTGAGGCTG
191881	AGAGAGAAAC	AAAGCAGCAA	GCAACTCCTG	GAAGGACCAC	TGCTGCAGAG	GTAATAACTG
191941	GTGAACCATG	TTTGGAGAA	GGAAAAGGTC	ACCAAGAGAA	GGAGGGGGTC	CAGGGTGTTC
192001	AGAAAGATTG	CATGCATAAA	GATCAAGGGT	AATAAAAAAA	ATTCCGTATT	ATGTAAATGT
192061	GAAGTTCCAG	GACCATGAGC	TTGGAGAGCA	TGAAGTACAG	GAGGAGGGTT	GGTTTTCAAAT
192121	AAATCTGGGA	ATGAAACAGT	GAAGCCTCTG	GCAGAACTCA	CATCTCTTTC	CTCCCCCTCTT
192181	CCTTGACAT	TCCCTTTATG	GAGTAATTGC	AGGGATGGGA	AAAGTTCAAA	ACCACCACTG
192241	AGCCTAGGAA	GTGCTAGGGT	AAAGTGGAGA	ATGAACCTGC	GTGATTTGCT	CATCCTAAAC
192301	TAGGTTCTTC	TAGGAGAGCC	CTTCCCCATA	AAATCTGCCC	TCCTCGAAGG	GGCCCAGACA
192361	GCCTAAGCTC	ACCTCCCAAA	GACCCCTTAC	TTGCTGACTG	AATCTGATTC	CACCCAGACA
192421	TGGCCTAAAA	CCCTTCCATA	ACTCTATAGC	CAAATTCAAT	TTTAGACAGG	CCTCATACCA
192481	ACCTTTCTTC	CTCTAAGTCT	GCCACCCTAG	GCAATTCTCA	ACATTCTCTA	CACACTTTGG
192541	GGCCATAGAC	GTGCTACCAA	GTCTCCAGAC	CTAGACCTGA	TGGAGCAGTG	CTGTAATGAG
192601	ACGACCACTG	GCCTTTGAAC	CAGACCCTTC	TCTGTGGCTC	CTATGCATCT	CCAACCTGTT
192661	TTGAGCACTG	CTGCCAAGAC	ATCTTTGGCA	CTTTGTTGTG	AAGTTTTTAA	ACTGAACTAA
192721	TCTACAAAAC	ACCTAACCTT	TAAAAATTCA	TTGTCATTTT	ATATCATGAA	AGATAAAGAA
192781	AGGCCAGGAA	ACTGTTCCAG	GTTAATAGAG	ACTAAAGAGA	TAGCAACCAA	ATGCAATTGT
192841	TGATCCTGGA	TTGAGGGGAA	AAAGTGTTGT	CAGAGACATG	ATTGGGACAG	CTGGTAAAT
192901	TTGAATTTGA	ATTTAAAGAT	AAAGTATTGA	GTAATATAGG	AAGATGATTA	TCTGCAACTT
192961	TCAAATGTTT	CAGTAAGTAT	ATATATATAT	AAAGAGATAT	AAAGACATAT	AAATAAATGG
193021	ATAGGTAGAG	AAAAAGCAAA	TGTATAATAT	TAACAATCTA	GGTAAAAAGT	ATATGAGTGT
193081	TCTTTGTAAT	GTTTTTCTGA	TTTTTCTATA	TGTTTGAAAT	CATTTTAAAA	TAAGAAGGTT
193141	TTTGGGTTTT	TTTGTGTTGT	TTTTTGTTTT	TAGAGACAGC	ATCTTATTCT	GTCACCAGGC
193201	TGTAGCTCAG	TGGCCCAATC	ATTGCTCACT	GCAGCCTCAA	CTTCTGGGTC	TCCAGTAATT
193261	CCCCCTACCT	CAGGCTCATG	AGTAGCTGGT	ACTTCAGGTG	TGCACCACTG	CACTCAGCTA
193321	ATTTTTATTT	TTTAAATTTT	TGTAGAGATG	GCATGTTGCT	ATGTCACCCA	GGCTAGTCTC
193381	AAACTCCTGC	CCCCAAGTGA	TCCTCCCACT	TTGGCCTCCC	AAAGTGCTAG	AATTATAGGC
193441	ATGAGCCACT	GCACCCAGCC	CCAAATAAAA	AAGTATTTTA	TTTTAATTAA	CTAATTAAC
193501	TTGAGTCAGA	GTTTCAACCCT	GTTCAACCCAG	CTGGAGTGTC	AATGGCATGA	TGTTGGCTCA
193561	CTGCAAACTC	TGCCTCCTGT	GTTTAAACGA	TTCTCTTGCC	TCAGACTCCT	GAGTAGCTGA
193621	GATTACAGGT	GCCTGCCACC	ATGCCCAGCT	AATTTTTTATA	TTTTTAGTAG	AGACGGGGTT
193681	TCAGCATGTT	GGTCAAGCTT	GTCTCAAAC	CCTGACCTCA	GGTGATCCAC	CCACCTCCGC
193741	CTCCGAAAGT	GTTGATGAGC	CACCACACCC	GGTCTAAAAA	GTATTTTTTAA	ACCACAGTCC
193801	CACTCTACCT	TGTCCTACAC	TACCAGGGGC	TAGGATCACC	CCATGTCTTC	TAGGCTATGA
193861	GATAGAGGAA	TCCAAGGAAG	AAGATAAGCT	ACTTGGTTCC	TCTATAGGGT	CTTGTGTGTG
193921	CTCTCATGTG	CTCTCTCTCT	CTCTCTCTCT	CTCACACACA	CACACACACA	CACACACACA
193981	CACATGAATA	CCAGAGCTAT	CACTTTCCCA	GTCTAGTACT	CATCTCATCC	CAAGGGTTTT
194041	GTGTTGTAAGT	GGTTTGCTCA	TTTCTTTGTT	TTGTTTGTGTT	GCTTGGATTA	TTCTTTTTTCT
194101	CTTTTGTGAG	CTGAAGGGAG	AATTTCCAGG	CCAGCCCTTT	GGCCATTAGA	GTTACAGTGC
194161	CTCTATTTCAG	GCTTCATAGA	GAGACCTGGG	ATTGAGTAGT	GGGGGGCTTT	TATCCAGTTC
194221	AAAATAATGC	ATTCTCACCA	AGATGTACTT	TGAAATAAAA	CAATACTAAA	ACACAAAATT
194281	TTATTATGTC	TGAACATTGA	ATCACTTTTT	TCTGTATTTT	GTGTAGAAAG	TTATACACAC
194341	ACAAACACAT	TTGCTCCTGC	TTTGTTTATT	GGCCAGGGG	TATGTTTGGT	AATACTTCAT

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194401	CAGGCATGAG	TAGTACGTCT	TGGAAGGTGT	GGTCTAAAGC	CTAGACTCCT	ATCTGCTTCC
194461	TTCAGCATTC	TCCAGTGTAT	CTGTCTCTG	TCTACCTTAG	GATAGGGGTC	TCCAGAACTT
194521	CCATTACAT	TTAGAAGAGG	GCAGCGGCTT	TCTATGGAAA	ATATGAACTC	TCATTTCATCT
194581	CTATTCCTTC	TTCTAGCTAT	GGTCCAGCTC	AGCTGTTTGG	AATAAAGTAT	CTATATGAAG
194641	TCTGCGAATG	GTTCTCAGAC	TGGTTGAACA	TTAGAATCAC	CTGAGTACCT	TCTAAAATTC
194701	TTATTACCCA	GGGCATATCT	CAGAATGAGT	ACCGCAGGGT	AGGGATAGGA	TTAGGGATCA
194761	TGATCTCTGG	AGTCTGGTTT	AGGCACTAGT	GCTGTTTAAA	ACTACGTTCA	TGAGGTGGAG
194821	GTTGCAGTGA	GCCGAGATGG	GCCCACTGCA	CTCCAACCTG	GGCGACAGAG	TGAGAGTCTG
194881	TCTCAACAAA	ACAAAACAAA	AAAAACCAAC	TACCCTTGTTG	ATTTGAATGT	CCATCCAAAA
194941	TTGAGAACCA	TTAGGTAAGG	CCAAGCTGTA	TAATTAAAGA	GCAGTTTTC	TTTGTCTGGT
195001	GTGGTGGCAG	CTTTTGTGATA	AGGGAAGTAT	TGTTGCCATC	CACATACCTG	AGCCTCACTC
195061	CTGAGAACAC	TGGTGTGTAT	GTTGCTAAAA	TTCCCCAGGT	GATTCTGAGG	TTCTTCTCTG
195121	GATAAAACC	ACTGACCCTG	GGAATGTACC	CACTGCCAAT	CTCCTGCGTA	AACCTTGGAT
195181	ACTGGGAAGC	CTACAGTTGA	AAATATTGGG	CTTGAGATCC	TGAAACAAAT	CTTGTATTTT
195241	ATTAAGACTA	ATATTTGGTA	CAGTGCAGCA	AATCAAGGGA	ATTTTGGTGG	CTGAGTTCTT
195301	TTAGAACTTT	TGCATTGAAA	TAGGTTCAAG	CAGCAATAAG	TTAAACTAC	AACCTCAGCT
195361	AAAGGATTAA	AAGACACGTG	AGCTGGGTAG	GATGAGGTCT	AAGGTGGGT	GTGGCGGCTC
195421	ATACCTGTAA	TCCCAGCACT	TTGGGAGACT	GAGGTGGGTG	GATCACTTGA	GGTCAGGAGT
195481	TCAAAACCAG	CCTGGCCAAC	ATGGTGAAAA	CCCATCTCTA	CTAAGAATAC	AAAAAATTA
195541	GCTGGGCGAG	GTGCCAGGCA	CCTGTAATCC	CAGCTACTGG	GGAGGCTGAG	GGAGGACAAT
195601	CACTTGAACT	CAGGAGGCAG	AGGTTGTAGT	GAGCTGAGAT	CGCACCACTG	CACTCCAGCC
195661	TGGGTGACAG	AGCAAGACTC	CATTTAAAAA	AAAAATAATA	ATAATAACAA	TAATAATAAT
195721	TCAGACATAT	CCAGGCATCA	AACAGATACC	TGGGCGAGAT	GAATAGTCTT	GAGATTCAAG
195781	TCACACATGA	AATTTAGGTG	GAAAATGACA	TTGGAGAAAT	TTGAGATTAT	GAGTAATGGA
195841	AATTTTTTCAA	AGAGGAATTT	CAGGCTCTGT	TCTTGAGGGG	ATAGATGGAC	TTCCAACAGC
195901	AATAACACAG	GATTAATGAG	GACTTGGGAT	GTTACATAAA	TTAGAGATGT	TAGATGGATA
195961	AAGAGATAAA	AGTACTCTCT	CTAAGAACAT	GGGACCAGAG	ATAGGCTCAC	TTCTAACCAT
196021	CAGATATAAC	TAGCAGACTA	AACGGTCTAA	AAATAAAAAT	CATGCCCCAC	TCCTGCTTAA
196081	GACATTTTAA	TTACTCTCAG	TAACTCTTCA	GTTTTTCTAC	TGTGTTATCT	TTAACTACAG
196141	GGTTGGTCTG	GGTGTGCAAC	ACAAGAAAGC	CTGGCATATA	CATGGATTCA	AGTGTATGCC
196201	ATGTGCAGGT	ATTCTTTTCAT	GTACTATTTT	ATGTATTCTT	TTTCACATCT	GTTTTTTTCT
196261	TCATTGAAGT	CAATGGCTGA	TATTAGATT	TACTATTTCAT	GTGTACTAGT	TATATATAAT
196321	TGTTACAAA	CAAATTAGCA	AAAACCTTAGT	GGCTTAAAGC	AACACACATT	TATTATTACC
196381	TAAGGTCTGT	GGATAGAAGT	TCTGACATGG	CTTAACCTGGG	TTCCCTGCTT	CAAGCCTCAT
196441	GTGGCTGCAA	TCCAGGTGTT	GCTGAGTCT	GAATTCCTCAT	CAGAGGCTTG	ATTGTGGAAA
196501	TTTCCACTTC	CAAGCTCCCT	CAGGTTTGTT	GAAAAATTCA	GTTCTTTGCA	CCGGTAGAAG
196561	CTTCTTGGTA	GAGGCTGATT	CAACTTCTAG	AGGCTGTCTG	CAGTTCTGT	CACCCAGGGT
196621	GGAGTGCAGT	GGAGCAATCA	TAGCTCACTG	CAGCCTTGAC	CTCCCAGAAT	CAATCTGTTT
196681	TCCCACCTCA	GCATCCTGAG	TAGCTGGGAC	CACAAGTGTG	TGCCATCACA	CCTGCCTAAA
196741	AAACAAACAA	ACGAAAAAAA	ACCCCCAGAG	AACCTTGTAG	AGACAAGCTG	GTCTGGAAC
196801	CCTGCGCTCA	AGCAATTCTC	CTGCCTTAGC	CTAAAAGTTC	TGGGATTATA	GGTATAAGCC
196861	ACCATACCTG	GCATATGGCA	AGTCTTGAGC	AGGACAAATA	CAGATGATTT	ATGTCTGTCT
196921	TCCATGGTAT	TCTAGGTTAT	TGTTGAGATG	GTCCTCTATT	GTCTTGTTCC	ATCTATTGAT
196981	TAGATAAAAC	GTTGTTCCCT	CTGTTATTTT	TCAACAGTAG	CTTTTATGTG	TCTCTCTTTA
197041	TCTTAAATTT	CTAACCAAAG	AGCTGCTCTT	TTCTTGGTGT	ACTTTACCTT	TGGTTGATCC
197101	TTCTTAACTT	CTTCTTGCCC	TCTGGGGCCT	AAGATGAGGG	CTGTTATCAG	ATGTGAGTCT
197161	ATGGGAAAGC	AAGCAAGAGG	TTCTTCAGCC	TCCGTTCCAGC	CTTAAATGTC	TAGGTAGAAA
197221	TCAGTCATGG	CCCTTCCAAT	TGCTTCAGCA	CCAGATCACA	GAGACAGGGG	TCTCAGCCAA
197281	GGTCTTGTGG	CCTAAGCCTT	ATAGAAATAA	TGAGTGTTTA	CTTACTTGGA	GAACCTCCCT
197341	GGAATATCTT	TTTTTGTGAA	CCTGAGGCAA	CTTTTGGTGA	TTTCTTGATG	TCTTGGGAAT
197401	CTTGGTCTAG	AGCCATTTCA	ACCCGATTTC	TTTTCATGTC	AGTGGCATTT	TGTGACCAGA
197461	TAGTAAATAA	GTTCTATGAT	GTTCACTCAG	AGAAATACAA	TGACTTATGA	TGCGAAGCTT
197521	CTGTGGTTCA	GCCCTTACTT	CATCTTCATT	CCCTCTTATC	TGCATCTGTC	TCCTGCTTGG
197581	GAACAAAAGT	CTGGCTTCAT	TCTATGACCC	CCACGTTGAG	TTTCTTAGTA	GCACTTACTT

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197641	TTCAATTAGG	AGTGTCTCTCA	CTTCTATCCG	TCAGACATAA	CTAGCCGACT	AAACAGTCTA
197701	AATATAAAAA	TCATGTCCTA	CTCCTGCTGA	AAACATTTTA	ATTACTCCCC	ATCATTTAAT
197761	TTTTTCTACT	GGGTTATCTT	TAACCTCAGA	GTTGGTCTTG	TGTGCAACAC	AAGAAAACCT
197821	GGCATATACA	TGGATTCAAG	TGTATGCCAC	GTGCATGTAT	TCCTTCATGT	ACTATTTTAT
197881	GTATTCTTTT	TCACATCTGT	TTTTTCCTCT	AAAAATTTATT	TCCTTTTAAA	AATGAAAATT
197941	TTGCATTTGA	CTAAATTTGT	CAAATTTAGT	CAAATTTGTT	TAAAACCATT	TTTAAATGT
198001	TTCCCGAAGT	TTTGAGTGAA	GTTAGTACTT	CAGAAAAACT	GTTTTGTATT	TTTCCTGTGA
198061	CCTCAGTGCA	CTGCTGTGCA	TTTCCATTTC	TGCGTCCACA	CACATTTGTT	TTGAGGAAAT
198121	ATAGGAACGA	CAAGATAAAG	TTCAAGCTCC	TGGACATTGC	ATAAAAGACC	GTCATGACCT
198181	GGTCCTGTTG	ACTTCCCTAG	ATTTCCCGCT	ATTTCCCTAAG	TTGAGATTTT	TGGTTTGGAT
198241	GCTTTGTGTT	TTCTTAAAT	CAAAATAGGT	TTTTCCTTTT	TATGATTATA	CAGTAAATAA
198301	ATGCTATTTG	TGTGAAACTT	TAAACAATAC	AAAAAAAACC	TAAGGAAGAA	AGTCAGATTC
198361	ATCTAAAAAT	CCTTGTGGCC	AGAATTAAGT	ACCTTAGTTA	CTATTTTCTC	TATCTCTCTC
198421	TCTCAATGTA	TATTTGGTGT	AGGTATAGGG	GTGTGTGTAG	TGTGTGTGTA	TGTATATATC
198481	TGTTTTCTATT	CCTGTATGTG	GATGTGCACA	ACGCATCCTG	CTTTGTACAC	TACAGTACTA
198541	GCATTTTTCT	AATGTAATTC	AATATTGTGT	AAAACATTTT	AAAAAAGCTT	GTATATATAC
198601	ACACACATAC	ACATACATGC	ATGTATGTAC	ATATACACAT	ACAGACAAAA	ATGTATCCTA
198661	TGTATATTCA	CACATGTATA	CACACTCACA	CATACATAGA	GTTTTACATC	CATAGTTTAT
198721	AAATGTTGCT	TTTTTTTGGT	CACCTTTTTG	CTAAGTCTTA	CACTTTTTTT	TTTTTTTTTT
198781	GAGACGGAGT	TTTGTGTGCA	TTGCCCAGGC	TTAGTGCAGT	AGCGCGATCT	CACCTCAGTG
198841	CAACCTCGAC	CTCCCGGGTT	CAAGCGGTTT	TCCTGCCTTA	GCCTCCTGAG	TAGCTGGTAC
198901	TACAGGTGTG	CGCCACCATG	CCTGGCTAAT	TTTTGTAGTT	TTTTTATAGA	GACGAGGTTT
198961	CACCATGTTG	GCCAAGCTGG	TCTGGAATCT	CTGACCTCAA	GTGATCTGCC	TGCCCTCAGAT
199021	TCCCAAAGTT	CTGGGATTAC	AGATGTGAGC	CACTGCACCC	GGCCAAGTCT	TACACATCTT
199081	TTTTTTACCA	CTAAACTGTT	TACCCAAACC	TGATAACCCA	AGTCAACAGC	TATTATGGCT
199141	CACACAATCT	TATGTAAACA	AAGATACAGA	TATATAGAAT	TTTCTTGATT	AATATTCAGA
199201	AAAAAATGGA	GTCCCTTTAT	ACGTCCCTAG	TATCTGCTTT	ACTCATTTAA	AAATGTATTA
199261	CATTATATGA	AAGTATTCAG	GTCAAATGTT	ATAGATGTGA	TTCATTCTTT	TTAACTGTGT
199321	TATTTTTCTG	CAATGACTAT	GTATCAAAA	GTACTCAGTC	TTCCACTGAT	GAAAATTTGG
199381	GCTATTTCCA	GTTTGTCTTC	CATTTTTCTT	TCTTCCTCTT	GGATTTTCAC	TCAATGTGTT
199441	TACTAATTTA	GGAAGAATCA	ATAGTTTTTA	TGGTATTACT	TCTCCCATT	AGAATAATAG
199501	CATATGGTAT	AGTATAGTAG	AGTACTTAGT	TTAATTTAGC	CAGATCCTGT	TTTCTGCCCT
199561	TTAATAAAAT	TCTATCATTT	TCTGCCTTTG	AGTCACATTT	TCCTTGTTCA	TATAATTTCT
199621	AAAAAATGTA	TAGTTTTTCAT	TCTAAGGGAA	CATAAAAACT	TCTTTCCATT	TCTATTCCTG
199681	TCTAGTTAAT	TCTACTATTG	GGAAAAGTAA	CTGTTAAAAA	AAATTCCTAT	CTTTCCAGTC
199741	AGTTCACCAC	ATTTCTTTTA	TACCTTTGTA	CTTTAATCCC	CAGTCATGTT	GAACACTTCT
199801	TATTCCTCAC	ACCAAGCCTC	AACGGGTTTG	CTCTTTCTGG	AAGGTGCTTC	CCCTGTATTA
199861	CTGACTTATT	CATACCACAC	ATGGAGACTG	GCGCAGCCCT	GTTCTGCCTG	GGAAGCCTTC
199921	CCCTGATACC	CCCAGTTGGC	AGGAGTCTTC	ATTTGTTCTT	TTCTAGTCAC	CTGTGCAAGT
199981	TTGTATTGTT	CATGTTTATC	ATCCTTCATT	CTAGTTGTCT	GTCTCTGTGT	GTGGTCTCAT
200041	TCAGTGGACT	CTGAATCTT	ATGAAGTCAT	GTCATGGGTC	AGATCTTAAT	AAATTAATAT
200101	TGTCGGAAGC	TAATGTCATG	TCTAGAATAC	AGAAAATTTA	TCAAAAAAAA	ATATAGTATG
200161	TTGGCTGGGC	GCAGTGGATC	AAGCCCGTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCAGGAG
200221	GATCACATGA	GGTCAGAAAT	TCAAGACCAG	CCTGGCCAAA	ATGGTGAAAC	CTCATCTCTA
200281	CTAAAAATAC	AAAAAGTAGC	CAGGCGTGGT	GGTGGCCACC	TGTAATCCCA	GCTACTCAGG
200341	AGGCTGAAGC	GGGAGGATCA	CTTGAACCTG	GGAGGCAGAG	ATTGCAATGA	GCTGAGATCA
200401	TGCCACTGCA	CTCCAGCCTG	GGCGACAGTG	AGACTCCATC	TCAAAATAAT	AATAATAATA
200461	ATAATAATAA	TAATAATAAT	AATTGTATGG	AATTGAACTG	CTCTGATTGG	AAATAGCTGT
200521	TTTTTAAAAA	ATTATTATTT	TTTAAGTTCC	TGGGTACAAG	TACAGGATGT	GCAGGTTTGT
200581	TACATAGGTA	AACGTGTGCC	ATGGTGATTT	GCTGCACCTA	TCAACCCATC	ACCTAGGTAT
200641	TAAGTACAGC	ATGCATTAGC	TCTTTTACCT	AATGTTCTCC	CACACCCCA	CCCCATCCTC
200701	CCCCAACAGG	CCCCAGTGAG	TGTTGTTCCC	CTCCCTGTGT	CCACATGTTT	TCATTGTTCA
200761	GCTCCCACTC	ATAAGTGAGA	ACATGAGGTG	TTTGGTTTTT	TGTTCTCTGC	TTAGCTGTTA
200821	ATGTCAGGCC	AGAGAGGCTT	AAATTTTTTA	GGATCTCTGG	ACTTTTCTTC	TACATTACTC

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200881	TTGATGTTTA	TAAATGTTAC	AACTTCTTTA	ATTTTCATTTA	ATGTATACCT	TATTGAGTTG
200941	ATTTAACTGA	GTTAACTTTG	TTATATGAAA	ATCATGATTG	GGAGTGAGGG	GGTTAAACCA
201001	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCAAG	AATTCATTCA	TTCAGTAAAC
201061	TAATGTTTAT	TAAGCGTGTA	CTGTCTTAGT	CTGTTTCAGAC	TGCTGTAACA	AAATATCATA
201121	AACTGGGTGA	CTTATAAACA	ACAAAAAATT	TATTTCTTAC	AGTTCCTGGAG	GTGGGAAGTC
201181	TAAGATTAAG	GCCCTGGCAA	ATTTAGTGTC	TGGTGAGGAC	AGGTAGCCAT	CTTTTTGCTG
201241	AGTCCTAACA	TGGCAGAAGG	GTTGAATAAA	CTTCCTTGGG	TTTCTTTTAT	AAGGACACTA
201301	ATCCTAGTGA	TGAGGTTTCT	GCCCTCATGG	TATAACTACT	GCCCAAAGAC	CCCTCCTTCT
201361	AATATTATCA	CTTTGTGGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTTG
201421	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TTGTGGATAT	AGTGATTCTC
201481	AAAATGAACA	AGATCCCCCTC	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTTA
201541	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TTGTGGCATT	GAATACTTTC
201601	GGCCACTCTT	TCCTTATTAT	ATTAAATATT	TACTCTTGTT	TGGGGGATCC	AGTCTCACCT
201661	ACTTTTTCTA	CCAGAACTGG	TATCAGCTCA	TGCTCTGCCT	TATGCAAATT	AAGAAAATAT
201721	CATACCTTTT	GGGTAAATTA	AGCCAAGAAA	GTTCTCCTTT	CTTCTCTTTC	TCTCTTTCTT
201781	TCTTTCTCTC	TTTCTCTTTC	TTTCTTTCTC	TCTCTCTCTT	TCTTTCTTTC	TTTCTTTCTT
201841	TCTTTCTTTC	TTTCTTTCTT	TTTCTTTCTG	ACAGGGTCTT	GCTCTATTGC	CTAGGCTGGA
201901	TGTCAGTGGT	GCAATCTCAG	CTCACTGCAG	CCTTGAAGTC	CAGGGCTCAA	GCAATCCTCC
201961	TGAGTAGCTG	GGACTATAGG	CATGTGCCAC	AACATCAAGC	TAATTTTTGC	ATTTTTTTGT
202021	GGAGACGGGA	TCTCCCTATG	TTGCTAAGGC	TGGTCTTGGA	TTCTGGGCT	TATGCGATTG
202081	TCCTGCCTCA	GCCTCCCAAA	GTCTTGGGAT	TACAGGCATG	AGCCACTGCC	CCTGGCCATT
202141	ATAACTATTT	TCATTGGCTT	ATCAGGCACA	TGATAACTAT	AATAAACTAA	TAACCAGAAT
202201	TTTTAAATAA	AGAAAGGAAG	GAATTGTTTC	AACCTCTTCT	GCTACCCCTC	TATCCCTCAA
202261	AAGGGTAGGC	TGAATGTTGT	CCTCCAAAGA	TATCCATGTC	CTAATCCCCA	GAACCTGTAA
202321	ATATATTACC	TTATATGACA	AAAGGGACTT	TACATGTTTA	ATAAGTTAAG	AATTTTGAGA
202381	TGGGCAGATT	TTCTGAATT	TTGCAGATGG	GCCCTAGTGT	AATCACAAGG	GTCCTTATAA
202441	GAGACAGGCA	GAAGAGTCAG	AATAAGAGAA	AAATACTTCA	AGATGTTACA	CTGCTGGCTT
202501	TAAGGTGGAG	GAAAGGCCAA	GAGCCAAAAA	ATGCAGTGGT	CACTACAAGC	TGAAAAGAAA
202561	AAGAAATGGA	TTTTCCCCTA	AAGCCTCTGG	AGGGGGCACA	ACCTTGCCAA	TACCTTGATT
202621	TTGGCTCAGT	GAAACCCATT	TTGGACTTCT	GACCTTTAGA	ATTGTAAATA	AATAAATAAT
202681	TTTGTGTTGT	TTCAAGCCAT	CACAGTTGTG	GTAATTTACT	ACAACAGCAA	TAAAATAGAA
202741	TTAAATACAG	AGATCTGAGG	AGTTGAGTAG	GATAAGCCTA	CTCCAGCAGG	TTATTTGCGG
202801	AGTATGGTGA	GACTCACTAG	GATGGCGGAA	CTCAATTAAG	GAAGTCTGAA	GCTGATAAGC
202861	CAGAGAGGGA	AGGCTCTCAT	TTCATTTTAT	AAGGGTTGCG	TCACACTAGG	AAGATCCAAT
202921	AGCAACCACA	GTCTCAAAAT	TAATGATTAC	AAATAGGACA	CAATTCCAAG	AGTCGGGAGC
202981	CAAGCAGAAA	ATGGATTAGG	GAAGACATGG	ATGATATGAA	ACAGGAAGGA	GGGGTACAAG
203041	GCAGCTTCCT	GGGAAGTTGC	CAGGGCAGTC	ACAGTTCACA	TTCATTAGGC	TGTGGGCACC
203101	AAATGCATAT	GGAAAATCTA	GCTGACTTAA	CTGAACCTCT	GAAGAGGAAT	GAACACCTCA
203161	TTTATTGAGG	AGCTACTACC	AATTAGAATA	TGTATTTTCA	TTGTTCAATA	ACCCCATGAG
203221	TACAGTAACA	CAATCCTTGC	TTTACTAAAG	CGGAAGCCAA	TTCAAAGAGG	TTCACTGACT
203281	TGTCCAAGCT	CAGGGAAAAC	ACTAGGAAGT	GAATATGGGT	CTGACTCCAT	CACTGATTTT
203341	AGGAGCCCTG	CCCTTTCTCT	CACACCATGC	CCCCTTGCTT	TCAGAAAAAA	AGGCTTGTTG
203401	ACTGAATGGT	TGTATGCACA	GTTCAAAGCA	GAAACACACG	ATGACATCTT	TTGAGATACT
203461	CTAACAGTGA	GAACCTGAAA	ATGAAGTTAA	AAATTAAGCG	GCAAAACCAA	GCCGAGGCTT
203521	TCTGAGAAAG	TGGGGCCAAA	CCTGTTGCCG	TCTGACTGCC	ACGTGGCTCA	CTATTTATCC
203581	CTGTAAAAAT	CTGCAAAAAGT	ATTTGAAAAGG	GAAGAAGGGA	CAGAAAACCTC	CCTCCTTTTC
203641	CAAGTTAGCC	TTATAGTCTA	GGGCTTAAAA	TACTGGTTTA	ATGGTGAAGG	TAAGTGCTTT
203701	TCTTCTTTTT	GGGTAGAAGG	ATTATTACTA	ACTTACCAA	GGTCCATTAA	GGGGAGGGAA
203761	CAGTTTTAGG	AGAAGTCAGA	GAAAAAGACAT	TAACAGCAAC	ATAAGGATCT	CCATCTGGTA
203821	ATATTGCCTA	ATTCCAAAAT	GAAGAGACTC	TCTGAAAAAG	ATAACTGATT	CAATGAAGAC
203881	CCTAGGGCAA	GGCTTGAGAA	GCCACTGGTA	CCAATGGACA	CTGTGGACAA	TGGTCATTTT
203941	TCCAAGGACG	CTGTGAGTAT	TAAGTGTGAT	GCTGTGATTA	GTCAGACTGG	GATTGGCTGT
204001	GGAATGAAAT	ACTGATCAGA	ACTGACAAGA	TTTGTGTTTG	GGACTGTGGC	TAACGAGTCT
204061	TTTCAGACTT	CTATATGAAT	TTGAAATGGT	CTCTCAGGAA	AAGGAGAACA	TGGCCGGGCC

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204121	TGGTGGCTCA	CGCCTGTAAT	CCCAGCACTT	TGGCAGGCTG	AGGCGGGCAG	ATCACTTGAG
204181	GTCAGGAGTT	TGAGACCAGC	CTGGCCAACA	TGGTGAAACC	CTGTCTCCAC	TAAAAATACA
204241	AAAATTAGCA	GGGCGTAGCG	GCGCGTGAC	CTATGCGCAT	GCATAGTGCG	CGTGCCAGCT
204301	ATTCAGAAGG	CTGAGGCAGG	AGAATTGCTT	GAACCCAGGA	CGTAGAGGTT	GCAGTAGTTG
204361	AGATCATACC	ACTGCACTCC	AGCCTAGGTG	ACAGAGTAAG	ACTCTGTCTC	AAAAAATAA
204421	TAATAATAAA	AGAAAAGGAG	AACATGACCA	AAGTTATGAA	TAAGACTGAA	GGCAAGAAAA
204481	TTGTACGCTT	GTAGAGATCA	CCTAGCTTGT	TGCCCTCATT	GTACAGCTAA	GAAAAGGCAC
204541	CCAGGGACAT	TGTGGTCAGC	ACCAATTTCT	CAGAAAAGATA	GGCAGATGAT	GAGAGGGCCC
204601	TCAGTTTTTC	TAACACTGAA	GGAATTGCTT	CTATGTTTTC	TGGTGAACCTC	CTCCCCACTC
204661	ATCTTGAGGA	TTCCAGGCCA	GAAGAATCCA	CTTTAAAAAA	GAAACATTTA	AAACCAATTT
204721	AACAACCAAT	CAAAGGCACT	TTTATAGAAA	TACATTTTCAT	TTGCTGTAGG	CCTGTATTTA
204781	TGGATCTGAG	AGGGCTAGAC	TGCCAATATT	GTGACTGTTT	ATTATTATTG	CTGTTGCTAG
204841	TATCTAGAAT	ATTATACAAC	ATATAACACT	TTGCAATTTA	CGAGGCATGT	CTCATACTTT
204901	TGTTTTCACT	CCAAACTGCC	CAGTGAAGTA	ACATTATCCC	AATTCTTCCT	ATGAAACAGT
204961	GAAAGCCCTA	AGAGTTTTTG	AAACTTTACC	TGGTTTACTC	AATTTGGGAA	TGGCAGAGCA
205021	GAATTCAGTC	CTTGAATATC	CTCCCACTGC	AGGTTTCATG	TCTTTGATCT	AGGTGTAACA
205081	TTTACTCTGA	GTAAACTAGG	ACTCTGGGCT	AACAGAGATG	AAGCAAGACA	GGCTGGATAT
205141	TAGGAGAATC	TAAGAGCAAT	CTAACGACCA	TTATAATAAA	ATCATGAGTT	CTAGACTTAA
205201	AAAAAGGGAA	AAACCTGTTT	TTTGTCTTAT	GCGTATACCA	TAATATTTAC	ATTATTTATT
205261	TTTTTCTCAA	ATTCAACCTA	TACTGTGTCA	AGTAATTTTT	TTTAATATAA	CATTTTCCTT
205321	TAACCTAATT	TCAATTTCATT	TTTCTGTGTC	TACCTACAAC	TTTGGCACTA	GAATTCACAA
205381	TTTTTTTTTTA	GAGGTATATC	TCCTTAAAGG	GAAGGGTTCT	GACACTGTTA	CATGTTCTCA
205441	ATTGTTTGCA	AATAGGTTAA	TAATTATTCC	AGTGTCTCTA	AGTACATATC	AACCATGCCA
205501	GTGTTTCAGCC	TCCATAATTT	TATTAGCTTC	TGTGCTTATT	TTGGAAAAAC	ATTTCCCATT
205561	ACCATGAAAG	ACCTCAGTTT	AGGATGGTTT	GGTATGTTAG	CCTGATTTCT	GCATTTCGCT
205621	CATGCAAAGG	AAAATAGGAA	ACGAAGAACT	GAAATTACCT	ATTGATACAA	AATCAAAGTA
205681	GCATTTGAAA	CCATAAAACT	TAAGTAGGGC	TTTTCATCCT	TTCTCGTTAG	ACAGCAACAG
205741	AGAATGGGAA	GAAAAACTAA	AGTGATGGGT	TTGTGATACA	ATTCCAGTAA	CATAAAGAGC
205801	AAGGAGAAGT	AGTTTTGTGG	TGTTTATGTT	TAATATTCAA	AGCTCAACCT	AAAAGTATTT
205861	TTCATTATCA	AACTTCCTTC	TAGAATAAAT	GATTAAAACT	TGATTTAAAA	TATACAAAAT
205921	CTCCTTTTATA	ATACCTCAAA	ATGGAGCTAC	CCCATTGAGT	TTTAAGCTTG	TGATTAAAAAT
205981	ATTACGAAAG	CAAAGGGGAA	GTTGTAATAG	GTAGAACAAG	CAGTAGTCTA	GGCATTAGGG
206041	GATCTGGTGC	TGGCTCTGTG	CATCATGTGG	TTTCAGGCAA	CTTTTCAAAT	TTTCTACGCA
206101	AATTTTCTTA	TCAATAAAAT	AAACAGTTGG	GCCAGAGGAT	CTCTGAGTCT	CTTTCAAGTT
206161	TCAGTGTTTA	TAAGATTGGA	GAAGTTGGTG	GGAAAGCTTT	AAGTGGAGTG	TAAGTAATTG
206221	CAGCTGCATG	TACAGTTAAA	GAGTTGCCCT	CAGCCAAGCC	ACGGGATCTT	GCATAAAAAAG
206281	TGAAATCAAA	TAGAAAATGG	TCCAAACTCT	GGGTTTGACC	ACAGATGACT	TCAGCTAGGA
206341	TCTGAGTGTA	GAGCAATGAG	CTGAACCTCT	GATATCCAGA	TGTTAGCAAG	ACTTGGAGGC
206401	CTTCTAAGGC	AGAGCAACAA	CCAGTATCTG	TCCTGGTGCT	GACCTGATCT	TACTAGCAAT
206461	TGGGCCCTCCA	TTTGGGTCCA	TTGTACAAAA	CAACAACAAC	AACAACAATA	AAATCTCCAA
206521	ACACCCAAAA	TTCAAAATTT	AGATGGAGAG	ATACTATTCC	CAGAATTCTA	GAGATATTTG
206581	GAAAGCAGAA	AACTATACTT	GCCATGCTGA	TGAAGTCCAA	TTATTGCTCT	TTTAAATACA
206641	TTTAGCTACT	TCTGAATATA	AAATGAGTAT	CTACTAATTA	TTTACAAAAT	CACTTGGTAA
206701	ATATAGAAAG	TCACAAAGAA	TGAAGTGATC	ATCCTGTTTT	GTAACCCAGA	AATAGTCATT
206761	ACTGGCACTT	GTGTGAATCA	GTTTCTATTC	CTGTATGTGG	ATGTGCACAG	CGTATCCTGC
206821	TTTGTACACT	AGAGTACTAG	CATTTTTCTA	ATGTAATTCA	ATATTGTCGA	AAACATTTTA
206881	AAATAGCTTC	CATCACAATA	ATCTATCAAA	TTGACTTGCC	AGACTCTCAT	TATTAGGTTA
206941	ATTTATCTCT	AACATTATGC	AGTCATGAGT	AATACTACAA	AGGATATTTT	TGGACACAAT
207001	TTTTCATCTA	TGCCTTTCTT	TATAATCCTT	CATCCTAAGG	TCACAGATTA	TGAATATCTT
207061	TAAAGTACGG	ACAAGTCTTT	TAAATTTTGT	GTGCAAAAAC	AGTGCAAAGC	CCTGAATGAT
207121	AAAATAGAGG	TTTGATATAT	GTGTTTTTTT	GTTTGTGTTG	TTTGAGACGG	ATTCTGCTC
207181	TGTCCCCCAA	GCTGTAGTGC	AGTGGCACGA	TCTTGGCTCA	CTGCAACCTT	TGCCTCTTGG
207241	GTTCAAGCAA	TTATCCTGCC	TCAGCCTCCT	TAGTAGCAGG	GTCTACAGGC	ATGTGCCACC
207301	ACACCCGGCT	GTTTTTGTAT	TTTTAGTAGA	GATGGGGTTT	CACCATGTTG	GCCAGGATGA

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207361	TCTCGAACAC	CTGACCTCAA	GTGATCCACC	CACCTCAGTC	TCCCAAAGTG	CTGGGATTAC
207421	AGGTGTGAGC	CACTGCACCC	GGCCGATACA	TGTGTTTTTA	AAGTCACAGA	AATTTTCAGAT
207481	GTCTTGAAGG	ATTTTAAGCA	ATTTAAAAAA	TAAAGTCATA	GAAGCTTCAA	TTTAGGAATG
207541	AATGGAAAAT	TGATGATATT	CTTAGGATAT	GGATTTTTCC	TAAAAGAAAC	AAATGTATGC
207601	ATCCCCAAAG	ATAATTTGAT	TAGTATACAA	ATATTAAATT	AAACATGTCC	ATATTTAGAG
207661	CCATGAATTC	TCTTTGCCTG	TCACAATAGC	TGGATTTATT	CACAATTGTA	GTAATTAGTC
207721	CCTGTTCATT	ATAATTTTCT	AGGTGATATG	AAGACTTTGT	CAGTCCAAGC	AAGTGTCCAC
207781	ATTGTGTGTA	GCAAACATGA	GAATAAACAT	TTTAAACTTT	TAAATGTAAT	ACATATTAGT
207841	GTTATGTAAT	GTCATCCTTC	ATGTTTGAAG	GCACATGGAA	CATTGTTCTG	GTGGTACAGA
207901	GGGGAGAGAA	ACACCATCAG	AATGAAAGGA	AAGACCGCTC	TGGAACCTTC	CTCCTTAGCT
207961	CTTGAGCTTA	GTTTAATTGT	CCTGTCTTAT	GGTCTGCTAC	AAGCAATACC	ACTCTTCACC
208021	TTCGCATGCT	TCTCTGTGGT	TTGATAAAGT	ACATGCAATT	TTTCATTTAA	TTCTTCCAGC
208081	TGCACTAAGA	AAGGAGCCTT	ATCTTTATTG	AACAGATGAG	GAAATGAATG	ATTAGAGAAT
208141	TTAAATGACT	AGCTCTAGGT	CACACAGCTG	GAACCTTACAG	CCAGATTTCC	TTTTAACAAT
208201	CCTGTAACCA	AAAGCATACC	AGTAGTGCCC	CATAAAATGT	AAGTTATAGA	GCTGTGTTGG
208261	GTCAAAACTT	TACTGATGC	TAAGAGGAGG	CAACATTAAC	AAGGGGAAAT	TATTTGTGTA
208321	TTATGTTTGG	GATTATGTTT	TCTCCATAGA	TAAAAGACTG	TCGTAGTAAA	AGAGATTTCAG
208381	GGCACAGGGA	AACTCCACCA	GAAGACGTGG	TACCATTTC	CACAGAAGCT	AAATGGACGG
208441	GAAGCCTGCC	ACCAGGAAAG	GTAAAGCCAC	TGCTCTTGTT	TGCAGGCTAT	GTTAATAAGC
208501	TGAAGCTTAT	TCCGACACAT	TTACACATCT	CTGCATCACA	CTGACCCCTC	GTAAAGATAC
208561	TCCAGTGTA	ACATTGGAGC	CAGCTCCAGC	CCCTGATCCT	GTGCTTTTTT	CCTTAGCCCC
208621	ATGAAATCAT	CTGTGAGAAA	TTAAGCCAAA	TAAGCAATAA	ATCCTGGGAT	CTAGGGAGTG
208681	GAATAAGTTT	TGGGAAAGTC	TTTTTTTTTT	TTTTTTTTTGA	CTGAGTCTTG	CTCTGTCTCA
208741	CAGGCTGGAG	TGCAGTGGTG	CGATCTCGGC	TCACTGCAAC	CTCTGCCTCC	CGGGTTCAAG
208801	TGATTCTCCT	GCCTCAGCCT	CCCGAGTAGC	TTGGACTACA	GGCACACACC	ACCATGCCCA
208861	GATGAATTTT	TGTATTTTTA	GTAGAGATGG	AGTTTCGCCG	TGTTAGCCAG	GATGGTCTCG
208921	ATCTCCTGAC	CTCGTGATCC	ACCGGCCTCG	GCCTCCCCAA	GTGCTGGGAT	TACAGGCATG
208981	GGCCACCACG	CCTGGCCCCG	GAAAGTCATT	TTAAACCAAC	CTATGTATGA	ATCCCTACTA
209041	TAATATTCTC	ACCAAGCGGC	TGGCTCTTTC	TCCTGAGCTT	GGAAACCTCC	AGTAAAATGG
209101	AAATAATTAT	TTCCAGAGCC	ACCACCTCTA	TCTGTGAGCT	TTTTTGGCCA	TTAAAAATTA
209161	TTTCTTCCAT	TATATTTTTA	TCTGTGTCTT	CACAGGTTTT	CTCTTCTTTT	CACTTTAGTG
209221	CTTTTCTTCA	AATAAGCAGG	AAAAATCCAA	TCTATCATGC	ACATGGGAAC	CCTTTCAATA
209281	TTGGTCTGTG	GTTGTTCCAT	TTTATGGGGA	TGCTTTTAAA	GAAAAAATTT	GTCCTTTCAA
209341	TATATTGAAT	ATCTTCCAGC	ACCACATCAC	CTGCAAGCTT	TGTAAAAATA	TGTTCTACATA
209401	TTAATTTTTT	TTTTTTTTTT	GAGATTGAGT	CTCATTCTGT	CACCCAGGCT	GGAGTACAGT
209461	GACATGATCT	TGGCTCATTG	CAACCTCTGC	CTCCTGGGTT	CAAGTGATTC	TCCTGACTCA
209521	GCCTCCCCGAG	TAGCTGGGAT	TACAGGCATG	CATCACCATG	CCTGGGTAAT	TTTTGTATTT
209581	TTAGTAGAGA	TGGGGTTTCA	CCATGTTGAC	CAGGCTGGTC	TCAAACCTCT	GACCTCAAGT
209641	GATCCACCTG	CCTTAGCCTC	CCAAAATGCT	GGGACTACAG	GCGTGAGCCA	CTGCACCCCA
209701	CGTAGTTTTT	TTTTTTTTTT	AAGTTGAACA	TATGTGAAGG	CAGGACCTAG	TGACACATAG
209761	CAATAACATT	TCCAAGTAGA	CATTACACTA	GGGAATTAGT	CGAAGTGCTC	ATTTAAAGTA
209821	CCATCTCTCA	AATGTATTAA	AAGAGAATCC	TTGGATGTGC	AATACCTTAA	TTCAAAGGCA
209881	GCTCGTTATG	TATAAACTCT	CAAGCTTTGT	GATAAACAAA	TGTGCATAAC	AGATGGGACT
209941	ATTCACCTAC	AGCCCAGGGA	ATTTTATTGA	CGCTGAGAAG	GTTATGTGAC	TGGCTCTGCC
210001	ACTGTCAATC	CCATTCACTT	CATTTTGGAG	CAATATGACA	TAAATGCCTT	ACATGTGGGT
210061	TTTCTCTATT	TATCATGTGT	TTCCTATCCC	CTTGAAAAGAT	GGCCATATTT	GCTTTACTTG
210121	GTTATAAGAT	CCCATATTCG	CTGTCTTGAA	GCCAACCAAA	TAATTTGACA	AAGTGGGTTT
210181	GTAGTGCTGG	CTATTTTGGT	GAAAAAAGA	CAATGAGACT	TCATGTGTCA	TCCAAAGTTC
210241	TATCAGATCG	AGCTGTGAGA	GAAAGGAAA	GAAAGGGGTC	TCAGTCAGGA	TGCTCACTAC
210301	ATACATCTGT	GTTGTTGTCT	AGGTCCAGAT	TTCTGTTTAT	TACGCTATGG	GCTGGCTCTT
210361	ATCATGCACT	TCTCAAACCT	CACCATGATA	ACGCAGCGTG	TGAGTCTGAG	CATTGCGATC
210421	ATCGCCATGG	TGAACACCAC	TCAGCAGCAA	GGTCTATCTA	ATGCCTCCAC	TGAGGGGCCT
210481	GTTGCAGATG	CCTTCAATAA	CTCCAGCATA	TCCATCAAGG	AATTTGATAC	AAAGGTAAGT
210541	ATGATGGAAA	ATAGGGCTCT	TTGTTGAGAG	AAAAAACTTT	GAAAGGAAGG	CATAGATCTT

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210601	GATTCTGTGG	AGTATGGAAG	TATACATTTTC	CAATGACAAA	TTAAAACTGA	CTGGAACTAT
210661	TTTTCCTTTGA	GACATTGCTT	ACTTCAATAA	TAAAAATAAG	ATTTTCATTGA	GGTTATTATG
210721	ATTATAAGGT	GGGGGAACTG	TAGAGTTAAA	TGTGAAAAAT	TTAAAAATGG	AACAGTTTAT
210781	GTGATGTCTT	CAATGAAAAA	CTAGGTATTA	CCTGGGCACA	TTCTTATAGG	TTACTCAATC
210841	CTATTCAGTT	CTCTGCCTGT	TTTATTGTTT	CTGAGCAATT	TTATATCCCT	GTAAATTCTA
210901	TATAACCAAT	AGAAATGCAA	ACGATTCTTG	TCCATAGCTT	TGCAAATAAA	TTTTGCCAAG
210961	AGAAAAATCA	GTAAAAACTT	TTCTCCACTC	ACCTCCCAGT	TGAATTAGCC	AATTTTGCTG
211021	TTTGTGTTGTT	TGTTTGTTTT	TTGAGATAGA	GTCTTCCTCT	GTCATTGAGG	CTGGAGTGCA
211081	GTGGCATGAT	CTCAGCTCAC	TGCAGCCTCC	GCCTCCCGGG	TTCAAGAGAT	TTTCTGTGCT
211141	CGGCTCCCA	AGTAGCTGGG	AGTAAGGGGG	CATGCCACCG	CGGCTGGCTA	ATTTTTGTAT
211201	TTTLAGTAGA	GACAGGGTTT	CACTAGGCTG	GTCTCGAACT	CCTGACCTCA	GGTGATCCAC
211261	CCGCTCGGC	CTCCCAAAGT	GTTGGGATTA	CAGGTGTGAG	CCACTGTGCC	AGGCTCTGCT
211321	GTATATTTAA	AGTCTATTTT	AGCATTGCTT	CCTGCTTGTT	TTATGCGTGA	TTCTTTGAGT
211381	TTTCTTTTGA	ACCAAGTTATA	ACATCTTACT	TACTTCCTCC	ATTAATCAAT	GAGTTAAATA
211441	AAATCTTTGT	TGTATGTTTA	TTTTACATTT	ATATGAAAAC	CATGAATTTA	CCCAATTAAA
211501	AAAATTATCC	TTTAAATTAT	CTTGACTGTT	ACATTTCCCA	TGTCATCCCT	ATAATTCATG
211561	ATTAATGATT	TTATTACATT	GGACCTAGCT	TATTTACAAT	GAGTACATAA	ATTTATTGTC
211621	TCCAGTCTTT	CCTCCATTAT	CCCGTCTACA	TATCCACACT	GAGTAGATTG	ACTGACTCAGG
211681	AATCTTGGAC	ACCTTCAAGT	TGCCAAACAT	GCAGTGTTC	CTGGACATGC	TGTGTTCTCT
211741	CAGAATTTGG	GCCTGCTTCT	CAGCACACTC	ACATCTGCTA	TCAATGACCC	ATGGAAAGTT
211801	TTTGCCCTGA	GCAAGCCAGA	GTCCCTGTTA	GTTTCTTCCA	AATGCTACAA	GTTCACTTTT
211861	GCTATTTTTT	CCGATGAGAT	AAAATTTTCC	TTTTTGACTT	TCTACAAATC	ATAGTCATTT
211921	TTCAAGGGAT	AGTTCAAGTA	TTGCTTCCTT	TCTGGGACCT	TCCCAAATTA	TTATTTTCTC
211981	CTCTCAAAGT	CTCTGTTTTA	TTTATGTTCA	TCCTCAAATC	TTGATTCTCA	CATGAATCAT
212041	ATACCTTGTA	TTATTTATAG	TTTTTTTGAG	TGGGTAAAT	ATTTTCATATT	TTATATTCTT
212101	TGGCTCTCTA	CTTTATAGCA	TGATGCCAGA	TATTTAGGGG	CCTTATTGCA	TTTATTTTTT
212161	ATTTTATTTT	AAAATCTATT	TTATTTTTTA	TTTATTTATT	TTAAATCTA	TTTATTTTTA
212221	GGTAAATATT	CAGGTAATAT	AATTTATGTA	ATTATTTAGG	AATTTTAGGT	AGTTATTTTA
212281	AAATAATTCA	AATTATTTAT	TGAGTTATAT	CAGAAGAATG	TGATCTTATT	CATTTGTAAT
212341	ATGTGTTTTA	GGAACCTCAGT	TCAGCCAGGG	CAGACCATGA	TTCCCAAAC	TGACTTTTCT
212401	TTTTAATTAG	GCACTGATTT	TGGTTAAGAG	TTCAAGTAAAG	TTTTGTGTGT	GTGTTTTTAA
212461	AAATCTTTTG	ATATAAGAGT	CAAGATGTTA	CTCAACTTTT	ACTAGAAGCA	AAATAGAGGA
212521	AGTGCTTTCA	CAGATGAAAT	ATCTCTCAAT	GTTTTCTTCC	ATTTACTTCT	TCCTATTATT
212581	CATCTATATA	ATCATTTTCT	TTACCTCTTT	TCTTCATTTT	TTCTGTTTTT	CTCTCCTTCT
212641	ACTAAGACAA	GCAAATTAGG	GGTATAATTG	GTTATTTGGG	AAGGTAGGAA	GAATATAGAG
212701	AGAAACAAAA	ATCAATATTT	TATACTAGGG	TCTCACTAAC	CTCAAGCAAC	TCTGACTGTA
212761	AAGTAGATTT	TCATAATAGG	ACTTCTTGAC	AAAGAGTTTT	CCTATTTTTC	CCCCAGGCCT
212821	CTGTGTATCA	ATGGAGCCCA	GAAACTCAGG	GTATCATCTT	TAGCTCCATC	AACATATGGA
212881	TAATACTGAC	TCTGATCCCA	AGTGGATATT	TAGCAGGGAT	ATTTGGAGCA	AAAAAAATGC
212941	TTGGTGCTGG	TTTGCTGATC	TCTTCCCTTC	TCACCCTCTT	TACACCACTG	GCTGCTGACT
213001	TCGGAGTGAT	TTTGGTCATC	ATGGTTCGGA	CAGTCCAGGG	CTTGGCCCAG	GTATCCAGAT
213061	ACTTTTCTCAT	TCTTGGTGGG	ATCCAGATTT	CTGAATTTCTA	CAAAATATCA	AAGGTCTTAA
213121	TGATTTTTCAT	TTCAGGGAAT	GGCATGGACA	GGTCAGTTTA	CTATTTGGGC	AAAGTGGGCT
213181	CCTCCACTTG	AACGAAGCAA	GCTCACCACC	ATTGCAGGAT	CAGGTAAGTG	TGCACAGATG
213241	GGTCATAGCT	TTGTCATCTG	TTCCATCCCA	CTGTGTCTTA	TCTTCTATGA	ATCAAATGGT
213301	TTGGGGAAGA	GAGAGAAAAA	GTACTGCTGA	AAAATTCAAC	AATATAAGAC	ACTTGCATCA
213361	CAAATAGGAA	AGATGCATCT	GTGCAGTAAA	GACATTGAAG	CTTAGAAGTA	GAAAAAACCA
213421	TTGTGAGCTA	GGTTTCAGCT	CAGAAAAGCC	TTAGTAGTCA	GAAAAGCCTT	AGTAGTCAGA
213481	AAAGCCTTGT	CGGAAAAAGT	TTAAACCTTT	AAGAATTGCA	CACATGGAAA	AAGATCAAGT
213541	AAGCTATATA	TACACCATCT	TAGCAATGAT	TTTGAAGTGA	GAATTAAGGC	TACCACAGCT
213601	CCAGGTGGTA	AGGAGAGAAA	TCAGGCTGGA	AGAGTTTGAA	GTTTCTGTAT	TATTTCTAAGC
213661	TCTTTACTAT	TCTATTATGA	GCTCATTAAT	TCTCACAACA	ACCTCTCAT	ATAAGTACCA
213721	TTTTAAATTC	TTATTTTACA	GAGAAGGGAG	TTAAGGAAGG	TGGAGATTAA	GAAATTTGCC
213781	CAAATACAAA	TAGCCAGCAG	GTGGTAGGTC	TGAGATTTAA	GCCCATGCAG	ATTTTAGCCC

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213841	CAGAGCAGAC	ATTCTCAATC	ACTATGCTAG	ACTGCCTTTC	CATGGTATGT	GATCCTACTC
213901	AGGCCTCTAC	AGCTTTTATCA	TTGCTGTTCT	CCCCAGCCTG	TCGTGCTGAG	AGTATATACT
213961	CGAAGAGCAG	AACTAAAATT	CCATCCAGCT	TCTCACTCCT	AGGTCCACTA	CACAGCTGCA
214021	TCCTGCAGAC	TTTTACCTCA	AGCAACCCTC	CTGCGTTCTT	GCTTCCTTCC	ATCATAGTTG
214081	TAACCATCTC	CTCTATTTGC	AAATACTATC	TGCTGATCTC	TCTCTTCTAG	ACTGGTTTCT
214141	TTCAACCTTC	TTCCCACCAA	AACCAAAGTTA	GCTTGCTAAA	ATAAAGATGG	CACATTTTTA
214201	CTCACCCGCT	TGAGAATTTT	CAATGTGTTT	CTTCATGCTT	ACAGAGTAAA	GCCTGACCTC
214261	TTTATTGCAT	GAATACAAAA	GTTCTTAGCC	ATCTGGCCCC	AACCTTGTTT	CACTCAACTC
214321	CCCTGTGCAA	GCATGGCTCC	AGTGGCACTG	GACATTGGCT	GCTCTCCACA	TAGATCTGCA
214381	CTGCACTTCC	CTCTGGCTCT	GCTCCCGTTA	GTTTATATGC	CTGGAAAGTT	CTTTGCCCTT
214441	GTTCTTGTG	CCAAAATTCC	ATCTATCCTA	TTGCATAGCT	TATGTAAAAA	CTTCCTAAAC
214501	CTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTG	AGACGGTGTC	TCACTCTTTC	GCCCAGGCCG
214561	GACTGCAGTA	GCGCTATCTC	GGCTCACTGC	AAGCTCCGCC	TCCCGGGTTC	ACGCCATTTT
214621	CCTGCCTCAG	CCTCCCGAGT	AGCTGGGACT	ACAGGCGCCT	GCCACCATGA	CCGGCTAATT
214681	TTTGTATT	TTAGTAGAGA	CGGGGTTTCA	AGCCAGGATG	GTCTCAATCT	CCTGACCTCG
214741	TGATCCGCC	GCCTCGGCTT	CCCAAAGTGC	TGGGATTACA	GGCGTGAGCC	ACCGCGCCCC
214801	GCCAAAACCT	CCTAAATCTT	ATAATTATTA	TCAATTTATC	CTCAGATATA	CTTCACGTA
214861	CATTGTAGTT	TTATTATATT	TATATTTTAC	ATCTTTTTTT	TCAAATTTCA	GTTTGGGACC
214921	CATTAGTGAG	TCATAAAATC	CATTGAGCGG	GTTAAATCA	TTATTTTAAA	AAATGAATAG
214981	AATAGAATAG	AAATTGTTGG	AGTGCATTGG	ACATGGTAAA	GTTAAATATC	GATTCATGAA
215041	ACCATCGTTT	GAGGCATATG	TGTGTGGTTG	TATGTACAAG	TGTTTATGCA	TATTGGTGTG
215101	TGTGTTATGT	TACCCTGTAA	AATGCATTTT	TTACTATAGG	TCTCTGTGAA	ATATGTGTCT
215161	TGTTGTTTTT	TAATGTAGAC	TTCCAAAGCC	TACATGGCAT	TTCCTAGTGT	ACAATCAATT
215221	TTATTCACAT	TTTTCTCTCC	AATTGGACCA	GAAGCTCTTT	GAGGGCAGGG	GCTGTATCTT
215281	ACCGATTTTT	GTAAGTCTTT	CATTTCTCTG	CCCTAGCCTC	ATATTAGATC	ATGCAAGAAT
215341	GCAACTGTAA	TCACAAGAAA	ATGCTAATGG	GCTGTGATAG	CAGAGAGTTA	CTGTGACAAA
215401	CTAAGGGATT	TAGATTGGT	CACATTGGTG	TTGAGGAGCC	ATTGAAGAAT	CAGAGAGTGT
215461	GTTACTATTA	TTTGTTAATT	TTAATTATAT	CATATTACTT	TACTGGGGAA	AATCTGTGAG
215521	CTATTTTAGA	AATAAATACT	CTCATTGCCC	AATAATTCTA	AGTCTGCCAC	CTCACTGTTG
215581	GGACATTGTT	TAGGGAGGCC	ACGAAGTCTC	AGCCTTTGAT	ATTTTCATAA	GTGTTTTTCT
215641	CCCTTTTTCC	TTTAGGGTCA	GCATTTGGAT	CCTTCATCAT	CCTCTGTGTG	GGGGGACTAA
215701	TCTCACAGGC	CTTGAGCTGG	CCTTTTATCT	TCTACATCTT	TGGTGAGTCA	CTTTCTCTTA
215761	AATCCTAACG	CCTCCATTTT	CTGAGCATCC	ATTTTGGCAC	CTACACCACC	CATATTCTTC
215821	CTATATGAAA	GAAAATGTCC	TTTATCAAAT	GGAAGATGAT	AAAAAATGTC	AACGGTTGGT
215881	ATCATTTTTA	ATCTAGTCAC	ACAACCTGAT	TAACACCTTC	CTGGTGTTTC	TGGGAAGCCA
215941	CACGCACAAG	GTAGAGGAGT	TGACTATTCA	CATGGCACCC	ACCGACTTGT	GATGCAGTCT
216001	TGTCCTTCCA	TATCAAGCAC	CTTCTGCAGA	ATCTCTACCA	CCACATCTGA	AGTGCCTGCT
216061	ATATGCAGTT	AAGATGTCAA	AGATAGTGAA	GTACATTTTC	AATGTGTCTT	CATATTTTCAT
216121	TATAATTATT	ATTTCTGTCC	AAGATGCCTT	TCACCTGTTT	TCTACCAAGT	TAATCTTGCA
216181	AAGTTCAATT	CAAATGTTCC	CTTCCCCATG	GGCCCTTCCA	GGGCTTACCC	TATCAGATTC
216241	TGGCATTCTC	TCCTTTATGA	TATTTCTCTT	CTAGGTTATG	TTGGTGTGTA	ATTATTTTATT
216301	TCTCCTTTTC	TTTCCACTAG	ACTGTGAAAT	GCTTGAGGCA	AGGAATCCAT	TCTATGTTTT
216361	CATCACTTGG	GTGTCATCAT	GGTGCTGAT	TTTTAGCTTT	AAAAATAAAG	AATCAGTGAA
216421	TCCAGTAATT	AGAGGGGATT	TAAAGAAAAC	TAGTCCTCAG	AATCTTTTAA	CATAGAATGT
216481	TCTTCAAATA	AGGAATTCCA	ATAATAAGAC	AATTTTCTAC	ACTTGATTTT	GTTTTTATAG
216541	CCAAATGGTG	TCATTAAATA	TAGTCTGGC	CTGAATGGCT	TTCTCATTA	TGATGCTAAT
216601	TATTTTGGTT	TGTACATGTT	AACCAGGTAT	TGTACAAAAA	TATTTCTTTT	GGGAATCCAT
216661	AATGGATGTA	TGGCTTGAAT	ACAAATAATA	CTGTCTCTTG	TAAGTGCATT	GGAAATTTTT
216721	CCCTGCCACA	TGATTTCATG	GAAGTTGTTT	TCGTGTATGT	ATGACTGCAA	ACCTGACTAT
216781	TCAGATCTTC	CGCAACAAGA	CAACTTATGT	GTGCATTAAG	AAGTTGCTGC	CTAAAATACA
216841	TAACACTGTA	ATCATTGGAG	ACTTTAAAGT	AATTAATCAG	CTATGCAATG	CCACGCTCCT
216901	GTTATCTCCA	GAGGGCTCTG	ACATTGACAA	ATGGTGGCTT	TCTATTTGAG	ACGTAATATC
216961	TAAAAAGCTT	TAACAGGTTT	GTAGAAGGAT	TGAAAGAAAG	AATGGGAACA	TTTAGGTCCT
217021	TATGGTAGAA	TAAGCATTAA	TTGATTAGTG	TGTAGAAGGG	AGAGGCATGC	CACTTCAGAG

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217081	GAAACTTCCT	TCCCCCAGTA	AACAAATCTA	CCTAAAAACT	AATTTTATCC	CTTCTTCCCA
217141	GGTAGCACTG	GCTGTGTCTG	CTGTCTCCTA	TGGTTCACAG	TGATTTATGA	TGACCCCATG
217201	CATCACCCGT	GCATAAGTGT	TAGGGAAAAG	GAGCACATCC	TGTCCTCACT	GGCTCAACAG
217261	GTACAGTGCA	CACCTTGTAC	CTGTGGCCCCA	TGCAGAGGTC	TCTAGGGCAG	GGTGTGGATC
217321	TCCTCTGAGA	GGCACCATCT	TGGCTGCTCT	AATACTCATG	CTGATTAGAT	CTTTCTTTTC
217381	AGCCCAGTTC	TCCTGGACGA	GCTGTCCCCA	TAAAGGCGAT	GGTCACATGC	CTACCACTTT
217441	GGGCCATTTT	CCTGGGTTTT	TTCAGCCATT	TCTGGTTGTG	CACCATCATC	CTAACATACC
217501	TACCAACGTA	TATCAGTACT	CTGCTCCATG	TTAACATCAG	AGATGTGAGT	TTACTTCCTA
217561	TACTTCTACG	AAAATGATAA	TGGTAATAAG	GAGAAACAGT	TCTGTGTTAC	CTATTACATT
217621	CTGGCTTTTAC	ATATAACCAT	TAATTTAACC	TTCACAATGA	CCTTGAGAGA	GGCATTGTTA
217681	TAATTCCCTT	TTCACAGATG	TGGAAACAGG	ACACTTAGAG	GTGAGATAAC	TTGCCCCAGG
217741	TTGCACAATA	CTAAGTGATA	GAGCTGCTGC	AGCATCCATA	TTCTTAACCA	CTATGCTATA
217801	CTACCACACC	AGCTGATTCC	AAAGCTTCTT	TTAGAAATAA	TATTGCTGGG	CCAGGCATGG
217861	TGGCTCATGC	CTGTAATTCC	AGCACTTTGG	GAGGCCGAGG	CAGGCAGATC	ATGAGGTCAG
217921	GAATGCAAGA	CCAGCCTGAC	CAATATGGTT	TACTAAATAT	CATCTACTAA	AAATACAAAA
217981	ATTAGCCAGG	TGTGGTGGCA	GGCACCTGTA	ATCCCAGCTA	TTCAGGAGGC	TGAGACAGGA
218041	GAATCGCTTG	AACCCAGGAG	GTGGAGGTTG	CATTGAGCCA	AGATCATGCC	ACTGCACTCC
218101	AGCCTGGGCG	ACAGAGTAAG	ATCCGTTTC	AAAAACAAAA	AACCCAAGAA	ATTAATATTG
218161	CTTTTATCTG	GAGCCAGAG	TGATGACGCT	TCTGGCCCTC	TTATCTGAGA	CAGTGTCTCT
218221	TTAGTGTGAA	AAAGGATGCT	AATTTTCCCC	CAAACAACCC	ACAGTATCAT	GGGGGTAAGT
218281	TAATGGCTGG	TCTGTGTAAC	TGACAAATTT	TGGTGCTAAC	GTATCTCTAT	AAC TACTCTG
218341	TATAAACTTC	CTTCCTTCAG	AGTGGAGTTC	TGTCCTCCCT	GCCTTTTATT	GCTGCTGCAA
218401	GCTGTACAAT	TTTAGGAGGT	CAGCTGGCAG	ATTTCCTTTT	GTCCAGGAAT	CTTCTCAGAT
218461	TGATCACTGT	GCGAAAGCTC	TTTTCATCTC	TTGGTAAGGA	TAAGCGTGTG	GGCCCATTTA
218521	ACCAATCCCT	TTTCTGCACA	TGGTCTCAGA	GGGTTCCTTG	ACAGCATGTC	CTCATTGCCC
218581	AGGGCTCCTC	CTTCCATCAA	TATGTGCTGT	GGCCCTGCCC	TTTGTGGCCT	CCAGTTACGT
218641	GATAACCATT	ATTTTGCTGA	TACTTATTCC	TGGGACCACT	AACCTATGTG	ACTCAGGGTT
218701	TATCATCAAC	ACCTTAGATA	TCGCCCCCAG	GTAAGAGCTC	TACCTGTTTT	TTCCCCCTCT
218761	CCAGACCCCT	CCAGAGGTGT	TAGACCTCAG	TGGTCGCCGT	GAAACTCTTT	AATGTTACTG
218821	ACATTGCACT	AATGGCAGAA	TGACAAATAA	CTACAAATAT	CTGTCTGTGG	CCATTTTTTAG
218881	AACAACAAAT	GTGGCATTTT	TAGAACAACA	ATTTCCAATC	TTGGCCAGTA	ATCATTTTGA
218941	CAAAAACCTT	CCCAAGCTTC	CCTAACAGAG	ATTGAACTGT	GTATGCTGGG	AAAAGGCCCA
219001	CACACAGGTG	ATTTGGAAAA	GTTTCCATGG	TGTTGTTTAT	ATTAGCTACC	ATATATATAT
219061	ATATATATAT	ATATATATAT	ATACAGTCAC	AATAAGCCAG	CTCCTGTGCC	AAGACTTGCC
219121	ATATATCAAC	ACATCTAATC	CTCACAGTTA	TATTAGGTAG	GCCCTATTGT	TATCCCCATT
219181	TTATAAGGGA	GAAGGCTGAG	GCACAAGGAG	GTTAAATGGT	GTGACTATGG	TCACATAAAG
219241	GCAGAGCCAG	GATTTGGACT	GGGGGAGTCT	GGCTTTGGAG	TCTGTGTCCT	GCCCGTTGCA
219301	CAAACTGGCT	TCTCCACTGA	GCAGCCGGGG	TAAAGAAACG	TGGTTCCTAG	AGAGACTGCA
219361	TTGCTCCCTG	GTTATTGACT	TGGTAGATTG	GTAATTTTCA	GTTTGGCAAA	TAGACATTGC
219421	CCTGAATGTC	TTTAGGTGAA	TGAAAAACTG	CATTAAGCAA	AATGACTTTG	CCATTAGAGC
219481	TGAATTGCAT	TAAAGTTGAG	TTGCTGCAGA	AGCTGTAGGT	GGCTTTCTAT	ATAAAATCAT
219541	TTATAAAATC	ATCTTCCCAC	AGATATGCAA	GTTTCCTCAT	GGGAATCTCA	AGGGGATTTG
219601	GGCTCATCGC	AGGAATCATC	TCTTCCACTG	CCACTGGATT	CCTCATCAGT	CAGGTTGGGC
219661	CAGTTTATTG	AACATCTTCA	AGTGGCAGGT	ATTGTTTTAG	GTGTTGGAGA	TACACACGGT
219721	GCTCTAAAGA	TCTGGATGGC	AACACAATTA	CTCTATTTAC	ATGAGCCTCT	AAATCAGACT
219781	CTGGTAGGTC	AGATTTCCCA	GAGGAAGAAA	AATATAAGCT	TATTTTCTCA	AGATGAATAG
219841	ATGTTAGATT	GATTAAAATG	AGCTGTTCCG	GTGCAGAAGA	CAGCACGTGT	GACTTCTTAG
219901	AGGTACATGA	GCATGAAACA	GTTCTTAGTT	ATGACCAGAA	TGAAAGACAC	ATGTCAAGGA
219961	ATAGCAAGAG	ACGAAGACAG	AGGGGCAAAA	GAAGATCATG	AAGAATATGT	TCAGACTAAT
220021	CCAATTTTFA	AAAAATCACA	AAAGGGAAAC	AAAGTGTCCT	AGGCCAGTTT	AAAGATAATT
220081	TAATGTCTGG	AAACAGATCG	GCTGTGAGAC	ATTGCAAGGA	GGCTTGCTCG	GTGTTTGGAA
220141	ATGCAGGCTC	ATGAGGAAGA	TGAAAAGACA	GACCCAGGCA	GGGATGGAAG	GACTGACGAG
220201	AACCAACTTA	CAAAGAGAAG	TTTTGTTTTT	ACTACATTTT	TATGTGATCA	AGTTCCAGG
220261	TTAATATTTG	ACTAAACTGC	TAGGAATCCA	CTGTGACTAT	AATGCTGGAA	ATGACTTAGT

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220321	AGGGCTTTCT	GAGGAGGGTC	ACACAGAAGA	CCAAAGAGAA	CTCATGTTGA	ATTGAGATGG
220381	GTTGTAGTGA	TAGTTGTCAA	CAGCCAATAC	AGAAACAAAA	AAAAACAAAA	CAAACAGCAA
220441	CAACAACAAC	AAAAAAAAAC	AGAGAAGACA	CAAACACAAT	GCCACAATGC	CATTTTAGGC
220501	ATAATTTTAA	ATGAGTAATA	TTATATGTTG	AAATCCAAAT	TTTCAGAAAA	ACATTAGTGT
220561	ATTTTATTTT	TGTTTAAAGA	AATAACCATC	TCAACTCAGA	ACCCCATGTG	CATTTTGGCC
220621	ATTTTGTTC	CAATAGTTTC	ATAAACTTTC	TTAAGTAACT	ACTGCACATT	GTTCCCTTATA
220681	TTCCTTGTGA	TCAACATTGC	AATACACAAC	TGGGAGGGCT	ACTAGAAGTG	GTGTAGAAGG
220741	AACTTGTGAG	ATTGATCATT	TTCTCTGTTT	TTTACATCTA	GGATTTTGAG	TCTGGTTGGA
220801	GGAATGTCTT	TTTCCTGTCT	GCTGCAGTCA	ACATGTTTGG	CCTGGTCTTT	TACCTCACGT
220861	TTGGACAAGC	AGAACTTCAA	GACTGGGCCA	AAGAGAGGAC	CCTTACCCGC	CTCTGAGGAC
220921	ATAAAGTTAC	AAACTTAAAT	GTGGTACTGA	GCATGAACTT	TTTAAACATT	TTTTACTTCT
220981	CTCCATATTC	CTGACCATAG	ACTCAGCAGT	TCTTAACTCT	GGCTGTGTGT	TAGTCTTCCC
221041	TGGGGAGCCT	TTATAAGACA	CTGATACTTG	GGACCCACTC	CAGAGATTCT	GAATGAATTG
221101	GTCTGGGGTG	GAACCCAGAT	ACTACTAATT	TTTAGATACT	CCTTAGAGGT	TTCTAGCATG
221161	CGCCCGGGGT	TGACAACAGC	TGGACAAACT	TGAAAAGTCA	ATTGATGTGG	CCTTTGAATT
221221	TTCTTCATTG	GAAAGTACTA	AATAAATAAA	AATTCATGTG	AAAATGATCA	CTGATAAATA
221281	TCTTCATGGT	GGGGCAGGTT	ATTGGATGCA	GAGAAGATCT	GCTCGGAATT	GATGCCATAT
221341	GTTACAGATC	TCAGCACCGA	TCGGAAGTGT	AAAGCTATAA	TCCCCAGAAT	TAAAGTTTTT
221401	ATFATTTTTT	ATACATTGTA	AAACATAGAC	GTTTATTTAT	GTGATTAAAT	TCTATTAAAA
221461	TTTACATGCT	AAAATAAAAT	AGACCATTTT	CAAATTATTT	AGATCCAGAT	ATTTCCATCA
221521	GATTAAACAG	ATATTTATTT	ATCCTAGCCC	AATTGCAAGA	GATTAATGAT	GAGAAAATGA
221581	CCAATACAAG	ATTAAATAAA	TGAGGTTAAC	TTAGAAATCA	AGGACAGAGA	AGATAGAAGT
221641	GGAAGGCTTG	TATTGTGAGA	AGAATGAATG	TGAAGGAAGG	CAATGTAGAC	ACTTCCAGAA
221701	GGGATAGCAA	TATAGTTTAA	ACCATATAAT	GAAAATTGGA	GAGAGATGAC	AGAGACACTT
221761	TCAAGTGAAA	TGACAATTTA	TATGGGGGAG	AAAAATATTG	AAGACATAAC	AAGATGAGAA
221821	AAGGCATAGA	AATGTATCAC	ATACAAGGCA	TAGAAGTGTA	TCACATACAA	GAGAAGTTCC
221881	TTTTGAGCGT	AGAAAAAGAT	AATTTAACCT	TCTTCATATT	TTTCTTACTT	TCCCAAGATA
221941	CTCAGATAGG	CAGCGTCAAC	TCTAACAGGA	ATTAATTTGG	CTCCTAACAC	TTAAGACATA
222001	TCCTTTAGTT	TGTCTCCTCA	CACAGAAGTG	ATTCTGGTTT	TGCCACAACA	TGCTCAGAGA
222061	AGAAGTTCCC	ACCATATTTT	AAATCCTATT	AAAAAACTGC	TTGGACAAGA	ACCTTGGGTT
222121	AATTCAGCAG	ATGAAGAGAA	TCTCCTAATG	CAAATCAATG	GGTATTTTTG	AGCAAGTTTT
222181	TCAGAAAAAC	AGAGTGTCAG	GCCCTGAGGG	TGGTACTAAG	ATGAGAACAT	TGATTTTGCC
222241	TTCATGATAT	TGACAACACA	AAGAGGAAAG	GGGGTTTGCA	GAAAACTAAA	AGAAGAAGTA
222301	GAAGAAAAAA	GAAAGACATA	GTATAATAGG	TAGTCAAATT	ATGTACAGAA	AAAAGAGAAA
222361	AAAAAAACAA	AAAAGGGTGG	GGGACAGACA	ACCCAATAA	AAAATGGGCC	AATGACTTGA
222421	ACAGGGACTT	CATAAAAGAG	AAAATGTAAG	TGGCTCCTTA	ACATATAAAA	AGATGTTCAA
222481	CTTCATTAGT	CATTACAGAA	ATGAAAATCA	AAACTACAAT	GAAATACCAC	TATAAAATTA
222541	ACTAATGGAT	AAAATGAAAG	GAGATGGAAA	ACAAAATGTT	GCCAGACATG	TGGAGCAACT
222601	GGAACCTTCA	TACGTTACGA	ATGTGAACTT	TGGAAAGCTG	CTCGGCAATA	TCTCCTAAAG
222661	CTAAATGTAC	AATTCCAGTG	ACTCAAACAT	TTTACTTAGA	AATGCACATA	TACATCCATA
222721	AAACATGTAC	AACAATGTTC	ATAGGAGCAC	TATCTGTAAT	AGCCTGAACA	GGAAGTTGTC
222781	TGTTAAAAAA	AGAATGAGTA	AATAAACCAC	GGTCTATTTG	TATAGCAATG	AGAATTAACA
222841	GACCCCAATA	TATAATAGAT	GAATGGGTCT	CATAAGCACA	ATATTGATTA	AAGGAAGACA
222901	AAACGCACAT	TCTTTTAAAG	GTTTATAAAA	TACTTTTTTAA	AAACAGCTAC	AACCAATCTG
222961	TCCTGTATAA	AATCAGTGAG	CGATTTCCCT	TGTGCAGGGA	TGGGGGTTGT	GGCTGGATGG
223021	ATGGTACTTA	AGAAGTGCTC	CTGGGGTACT	AGAAATATTT	TATTTCTTGA	CTTGGATGTG
223081	TGTTTACTTT	GTGAATATTG	TACATTTATG	ATTTGTGCAC	GTTTATGAAT	GTAGAAAATA
223141	AAACAGAAAG	CAAATTCAAA	GTATCATCCT	TTTGAGAGCT	TCTGCTCTGA	CTTCGTTTTG
223201	ACCAATGGAG	CAGTTGGGAA	GGGGTCTTGG	TCCTTCGGTC	CTTTGCTTTT	TTTTTTTTTT
223261	TTTTTTTTTT	TAGACAGAGT	CTTACTCTGT	CGCCCGGGCT	GGAGTGCAGT	GGCTCGATCT
223321	TAGCTCACTG	AAAGCTTTGC	CTCCCGGGTT	CATGCCATTC	TCCTGCCTCA	GCCTCCCCAG
223381	TAGCTGGGAC	TACAGGCACC	TGCCACCATG	CCCGGCTAAT	TTTTTGTATT	TTTTAGTAGA
223441	GACGGGGTTT	CACCATGTTA	GCCAGGATGG	TCTCGATCTC	CTGACCTCGT	GATCCGCCCA
223501	CCTGAGCCTC	CCAAAGTGCT	GGGATTACAG	GTGTGAGCCA	CCGCGCCCGG	CCCCTGGTCC

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223561	TCTGCTTTCA	TGTTCTTCTT	GGTCCTGTTC	CTCCTCCTCT	TTTGTGGA	CTTCCAGTAT
223621	CAGAGCAGGA	AGGAAGGCAA	TGGGTCAATC	GATGCTGTCA	GCTTTTGGAT	CAAAC TGCAA
223681	GTTCTCAAAC	AGCAAAATTA	ATGAGCTCAG	GCTTTGAAGA	AACCATGACC	CTGAAAGCAT
223741	CAGTTGCTTC	CAATTGCATC	AGTTGCCACG	GGTGATAAGA	ACAATGATGA	CTCAGAATGC
223801	CTAGGTTTTT	CCAGCAGCTT	CTCTGAGGTT	TTCCCAGCAG	CTTCTCTGAT	TGATTCCTGA
223861	CAGATGACTT	CGGTGTGTCA	GACTTTCAGG	GTATCTTTCC	TTATGTGATG	GTTTGAGGAA
223921	GAGTTACCAT	TCACATTCCCT	AATGGCTTCA	GAATAGATGC	AATTGTGAAC	TGATAGGAAA
223981	CATTTCTAAT	TCATCTCCCC	TCCCCATCCC	TAAAGGATTG	TTTCTAACAA	TAGTCATGAA
224041	AATTAATTCA	CTTTTCTCAA	ATAGTTTATT	GTCATCTACC	TAATGATGAG	ATGACTTACT
224101	TTTTTCTCCT	GACTGTTAAA	TATTATGAAT	TATATTAATG	TATTTCTTAA	TGTTGAGCTT
224161	TCCCTTGAAT	ATTCTTTTGA	TGTACGACAG	AATTTGATTG	ACTAATAGTT	TATTTAGGAC
224221	TTTGGCTGAT	GTA CTGATAT	ATGAGATTGG	CTCTGTATGC	ATACATGTGT	TTTGTGTATC
224281	TTTTTTGTGT	CTGGATATGG	AGCTTATGCT	GATTTCAAAA	ACAAGAAAGG	AGAAC TTTCC
224341	TTTTTCCCCA	TTACTCTGAA	AAAGATTGAC	TAGAATGGAA	TTTTTATAAT	TGCTGTTGTT
224401	ATTTGAAAGC	TTGAAAGCAT	TGGTTTGTA	AAATCATGCA	GGCTGAAAGC	CATTTTGAGG
224461	AGACTTTGAT	AAC TTTCTCA	ATTTCTTTCA	GTTACTGGTC	TTTTAAGGGG	TTTTATATTT
224521	TTCTTTGATC	AATTTTGACC	ATTTATGTTA	TCTTGGAGGA	TCATCTATTT	TACACACTAT
224581	TTAAAGTATA	TTTGCAAAAA	TTCAACTGTT	TTATCAGGCT	ATCTTTTAA	TAATATATTC
224641	ATTTTATCTA	TATCTGAGGT	TTTAGCTTCT	TTGTACTTCT	GACCCAATTG	CATGTGTGCT
224701	TTCTTTCTCC	TTCATTAGAC	TACTTAGTCA	TTTACTAATT	TTAAGAATAG	CTTGTCTTTT
224761	ATTTATTTAC	TTATTTATTT	TTGAGACGGA	GTCTCACTCT	GTCACCCAGG	CTGGAGTGCA
224821	GTGGCGCGAT	CTCGGCTCAC	TGCAACCTCC	GCCTCCCGGG	TTCAAGTGAT	TCTCCTGCCT
224881	CAGACTCCCG	AGTAGCTGGG	ATTACAGTCA	TGCACCACCA	TGTCTGGCTA	ATTTCTGTAT
224941	TTTTAATAGA	GATGGGGTTT	TGCTATGTTG	GCCAAGCTGG	TCTCAAACCTC	CTGACCTTAG
225001	ATGATCTACC	CACCTTGGCC	TCCCAAAGTG	CTGGGATTAC	AGGCATGAGC	CACTGCGCCC
225061	AGCCCTGCTT	GTCTTTTAT	TTTATATTTG	ATTAGCTTTA	TCTTTTATCA	AGCTTATGTC
225121	CTATTTCCCT	TTGCTTTACT	TCATATAAAT	TTTGTTTTGG	ATAGTTTATT	TATTTTTCAT
225181	TTAATTATGA	AACAGGTAA	AGCTTAGAGG	AAAATTGCTC	CTCTAAGTCC	AATTTTGTGG
225241	GCAGATTACA	TTTTGCTGTG	TTGTGCTCCC	AAATTCATTG	TTCTTTTAA	GCTTTATTTT
225301	TCAAGTTAAT	AACCTATATA	GTAAAAAAGT	GGCTGTTGAC	TCTCAGCTTT	TTTTTTTTTT
225361	TTTTTTTTTT	G TAGATACAG	GGATCTTGCT	GTGTTGCTCA	GGCTGGTCTG	AAATGCTGCG
225421	CTTCAAGGGA	TCCTCCTGCC	TTGGTCTCAC	AAAATGCTGG	GATGACAGAC	ATGAGACACC
225481	ATGCCTAGCC	ATGTCTCTCT	CCTTATATAT	AATAAGAAAA	CAGACACACT	GAGGCATCCT
225541	ATCATCTCAC	TCTTGGTTTC	ACTACTGTTC	TCTGGAAGTT	TTGCTCTGAC	CTTTTGCAGT
225601	TAATGTATTA	ATTTTGCATT	GAGTAGTTTC	CATAGAAGAA	TTATAGCATT	TGCATTCTGT
225661	TGGGTATTAT	ACTTTTCACT	GTTATTTGAA	CATAATTTGA	GGGCTGAAAC	CAAGATGAGG
225721	CAAGTGAGGT	GCCCAGGAAG	CAATATTTAA	GGAGGCATCC	TTTCTTAGGC	TCATGCAAGA
225781	ACAGAATTGG	CACATGAGAG	TGAGTGCCCTC	CTTAATTTTG	AGTGCTGGAC	ACTTCTTGCT
225841	CAC TTAGCAT	ACCCCTGGAC	AATGAAGTGT	TTTTTGTTTT	GTTTTTTTCT	GTCCATCCTT
225901	TATCCTTCTT	CATCTCAAAA	CATTTCAATG	GAGTATTTTT	TTGGAGCAGT	ACTTGGATGA
225961	GCCTCTGAGT	CCCACAGTAG	CTGAGAATTT	ATTTTCATAGT	ACTCTTTATG	ATCACTGTGG
226021	AGCCTTAAAA	CATTGTAAATA	TTAACTTAGC	TGGGAACAGA	AATTTTGTTT	CACAATTTGT
226081	CTTATTCAGA	ACAGTATTGA	CTTCTGCTA	GTCTCTTCTG	ATGTCCAATA	TGAGGAAGTC
226141	TAGTTAGCCA	GCTACTTTTT	G TAGGAGAGC	TATGTTTAGG	CTAGGTGCTA	TAGGATTCTC
226201	TTTATCCTGG	AATTCCTTCA	CCAAGATGTG	CCAAGGTGTT	AATCATTTTT	TCTTGCTTTT
226261	TGGCTGGTGG	TCTTAGAGTT	TCCTTCGATT	TTGTTTATT	TAGTGATTGT	CCTCAATTTG
226321	TTTTCTTTAC	TAAGAATCTC	TCTTCTATTT	ATCTGTATGG	TAAAACCTTG	TTGCCCATCT
226381	TTCTGGTTTC	TGCTGACTTT	CATTTTGGGA	CCTTTTACTT	TGCTTTCTCC	ATGGACTTTT
226441	TGGTAGTGGA	GGCAGGCAAA	CAC TTTCCAA	AGTCTTCTC	AATTTCCATC	AATTTCAACT
226501	TATTTCTTAA	AATTGCCTCA	GAATGTGCCCT	ATGTCCACAA	TATCCCTCCT	TCCACTTTAG
226561	AAAGGAAAGG	CATCCACACT	TTATTTAGGT	GCAATGCCTG	AAGTGTA AAC	ACTTTCTGGT
226621	TGTCACACAA	GGAGTACTTC	CAAATATTGG	TTTGGGGATA	ACCTGCTAAT	GATTAACACA
226681	TTCACCTTGG	CTCTTGTTTT	GCCTGCTCCC	TCTTCTTTTA	TCTGCTGTGT	GTATTTTTTT
226741	TAATCACTGA	GAATATGCAC	AGTATTGTAT	GTTTTATTAT	AAGAGAGGAC	TGGCCAGAGT

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226801	GGGAATGTTT	TGAATTCAGA	ATAACTGAAG	CAGTACAGGA	TAGGAACTCA	TTCTTTCAAA
226861	TGAAGCTGGC	ATATTTTCCC	AGAGCACCAA	ATTTCAATAT	ATATTTAAAA	AACTTGATAT
226921	GAATGATACA	ATAAAGTGGT	TAGAACCTTT	ATTAATAATA	ACTTATGTCA	TGAAATACTT
226981	ATTCTAATTA	TAGTCACTCT	TCATCTTATT	TCATCTTATA	ACATGTTTAA	TGTTTTCTTT
227041	TATTTACAAA	ACAATTTATT	TTTTGATGAA	AAGTTTTAGA	AATCAAGTTA	AAAATATTCA
227101	AAGGAATGCC	TAAAGTTTTT	AAAATTCCTT	TACATGTTGT	ACAATCAAAA	GAGTCTGAAG
227161	ACCATTTAGC	TATCCAAATT	GTTTATTTTT	AAGCAGTATC	CCTTCTAATA	TTTACTATTT
227221	ATAATCCTTA	AAAATTTGCC	TTAGCACAGG	AGAATTGCTT	GAACCCAGGA	GACGGAGGTT
227281	GCAGTGAGCC	AACACAGTGC	CAGTGCCTTC	CAGCCTCGGC	GACAGAGTGA	GACTCTGTCT
227341	CAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAG	GCCAAAAACA	AATAAACAAA	CAAAAAATC
227401	CGCCTTAACA	TTATTTGTTT	ATTAAAAACT	TTCTTTAATA	CTACTAGTTT	CCCTTTCCTC
227461	TCAGCCCATT	GTCATATTTT	GATTTTTTATC	ACTTGCTTTG	TAGGACATAT	GAGGTTTTTG
227521	TTTTTTTTTT	TTTTTGGAGA	TGCAGTCTCC	CTCTGTTGCC	CGTGCTGGAG	TGCAATGGCG
227581	CAATCTTGGC	TCAGTCAAC	CTCTGCCTCC	TGGGTTCAAG	CAATCTCCT	GCCTCAGCCT
227641	TCCAAGTAGC	TGGGATTACA	GGCAGCCACT	ACCACGCCTG	GCTAATTTTT	GTATTTCTGG
227701	TAGAGACGGG	GTTTCACCAT	GTTGGCCAGG	CTGGTCTCGA	ACTCCTGACC	TCAAGTGATC
227761	CACAATCCTT	GGCCTCCCAA	AGTGCTATGA	TTACAAGCAT	GAGCCACCTG	CCCAGCCAGA
227821	ATATATGTTT	ATTTTGAGTC	CTTTAACAAA	GTCATAAGAA	TTTTAGGAAT	TTCAGTTACTT
227881	TCTTGAGAAA	ATCTCTGAAA	AGATGCCAAT	AATTTGTAGC	CAATTATATT	GATTTCTCTT
227941	TTTCATATTG	AGAATTGTTT	TTTAAAAAGT	TTGTATGTGT	GAAGATTTTT	GCACTGTAGT
228001	TAAAGAAACC	ACCTGTGTGT	TGGTTAAGCC	ATAAGTACAT	GTATTCAAAT	AAATTGAGGT
228061	GGGGTTACTC	TGAGAATCAA	AGGAAAACCT	GAAGAAACAG	GCAGCCTCAA	AAGGTCTTAG
228121	CTGTAGCAAC	TTGCTCCATT	GTTGAAATAA	ATAGGCTTGA	ACTTGTATTT	TCCCTCTACT
228181	CAACATTTAA	GGTCTCAGAA	GATAATATAA	TTGGTGAAAT	TTAAGTAAAG	TGCTCACTCT
228241	TTTGCTTTAA	CAAACCCTAG	AGAGCTGGTA	GGCAGAGCCT	CAACAGACCG	TTTTAGCTTC
228301	CAAAGGGAGT	TCAGGACACC	ATGATTCACG	ACCACAATAC	ATCACACATA	ATTGAGAAAA
228361	GATAGTTCCA	CCAAATAAAG	TTGAAATGCT	GACAAGAAGG	GGTAAGAAAT	CTTGGAATAA
228421	AGTTTATATA	AAATTTATTT	TTTCCTTTTT	TATTGTTATG	GAATAGGACC	AGTTCTACTT
228481	AAGCCACCCA	TTTGCCCAAA	TAAAGTGAGA	ATCGTTTCTT	TTGGGGACTC	CTCTTTGTAG
228541	CTCCAAGTGC	CACTAACAAT	TCTTAGGACC	TGAGCTATAA	GCCAGGTGAT	TTCAGTTAAT
228601	ATGATCAATT	ATTTCAATTA	AATGGCTCTA	ATGTGCAGAG	GGAACGGAGC	CCATGCAGAT
228661	TCCCTGCAGG	GAAGTGCAGT	GGCTTTTATC	AACTTGAACA	GCTAGCTTTC	AACTGTTTTG
228721	AAATCACTTT	CAGGGTGGTC	ATGTAGTTGC	TTTTTTGAAA	TCAGAAGATG	ATTCTGCCTC
228781	TTTTAATATG	TGACTCCTCA	GATTCAGAAA	GTGCTCGCTA	GTCTTAAGAG	TGAATTACCC
228841	TCAGTGGTCC	AGCGCTTATG	AACCCACATC	TAACCCTATC	CCCTGGGGGA	ACTATCAGAG
228901	AAATTGGTGC	CATGGACATA	AGAGGAAGGC	ACAGTGAAGC	AGAGAGCCCC	GCATGATGAA
228961	AATCAGTGGA	CAGCATCATT	ATTTACAAC	TTGTAATCAC	CCAGGAGCAT	GAAAATCCAG
229021	GCCAATCTGG	CACCATGAGC	TCTAATTTTT	GTTGGAGTTC	TTGGAACCGA	TTCTGATGAA
229081	TGACTGTTTA	GCCATTTTAG	AGTGTGGCAT	ACGTGGCTGC	TGGCATAACG	AGGTTGGATG
229141	TAAACGGGCC	TTTGCCCTCT	CTTATGAACA	TAGACAGGAA	CTAAACTGTG	TCACATAGGT
229201	TCCAAATGGT	GGCCTGAATA	CTATTTACAA	CTAAGGTACA	ATGAAATTGA	GTAAGTCTTT
229261	TCCTCTTTTG	CAGATACCAT	CATTATTCAT	ATATTTCTTC	AAAGTTAACT	ATTTGTATTT
229321	GGTAATTTTT	AATAGAAATG	TAATAATTGC	TTCTCAAGTT	TAGTCTTTAG	TCTTAAGGTT
229381	GATGCTCTCC	ATGTCCTTCC	AAAAAAAGGT	ATGTTGCTTT	TATTATATCC	TCGCCCTCAG
229441	ATGGGATTAT	TCCATTTTGT	TCTTTGTTAA	TATATACTTT	GAGCCACTTT	TTTTGTGGCT
229501	CTGGGTGAGA	TGCTATAGGT	ACAATGACAA	GTGATACGTG	TGTTGTCCCT	GTCACAAAAG
229561	TGGATAGCCT	AAGTGGTGAC	TTTTACCTCC	ACTCCAAATA	TATGTATCAC	ACACCAGCCG
229621	TATGCCAGGC	ACCACTCTAG	GTGCTAGGGA	TACAGCAGTA	AACAGACAAA	TGCAACCCCT
229681	GCCCATGTGA	AAGAGAATAA	GACAATAAAT	AAGTAAAGTG	CATGTTATAT	GGAGGTGGCA
229741	AATGCTAAAA	AGAAAAATTA	AGCAGGCAAG	AGGACTCATT	GAAAAGATGA	CATTTGGGTA
229801	AAAGCCCATG	TATATATGTT	CTATTGGTTT	TATTTCTCTG	GAGAGCCCTG	ACTAATACAC
229861	AATGACTTTG	AGAAGTTACT	GGCTTTTGAT	TTATCACACT	ATTCCGAGTG	CTGAGAGCCT
229921	TCTTAGTGTG	TATTCAGTGT	TTTAAGAGAG	CTTGTGGATG	AATAATAAAT	AGGACAAAAT
229981	TTATCCAAAC	TTAAGCCTTG	CTTTAGGTAA	AAGGGCTCCT	CTTACAAGGT	AGAAGGTTAT

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230041	TATTTGGCAT	TTAAATCCAA	CTGAAGACTA	ATAAGACTAA	TTAATTAAAA	GTTTTTAAAT
230101	CACAACTGGG	TGCAAAATAA	ATGGAAGTGC	CATGCTCGCC	AAGTGTGCAT	GAGTGGTGTG
230161	CATGGGAGAC	AGCACGAAGC	TAATCCCACT	CATCTTGCAG	GTTGCTCCAT	TTTTCTCCTA
230221	AAATCAGTAA	GACAGAAGCT	GGTCAGATTA	TCAAGAGCCC	TAGTTAAACA	CAGCAGTAGC
230281	ATTTGGAAGG	GGTTGCTCTC	ATTAGGCAGT	GCCTGACCAC	AACAAGAGAT	GAACAAGCCC
230341	TGTATCTGAA	GCCATCATGC	CTAGTTATGG	TCCCCCACTG	TTCATGATGC	CTGAAAGGGA
230401	GGCCCCCTGC	ACCCTAGAAA	GCTGGGTGGG	TTCTACTGTC	TGCTTTACTG	CTAAAAACCC
230461	TCTTCTTTGG	ATCTGGACTT	TACCTCTATC	TGATTTTTTT	TTCTAATATA	TGATTTGGCA
230521	CTGAGTCTGT	CACTGCTGCT	AACTCAGCAG	TTCTAGGGTC	ATTGCCCCAT	TGCCCTCACAG
230581	AAAGAATTTT	ATAGCTTCCA	GCATCCTCTC	TCCTTCATTA	TACTTTGATT	TCAGCATTGC
230641	TATTTTTTCT	CTTGGGTGTT	GCAGCTCTCT	CTCTCCTTCC	CATGTCTTGT	TGGTTTTCTG
230701	CTAACTCCTG	CTTTTTTCT	TTTTTTTTTT	TTGAGACGGA	GTCTCGTTCT	GTCACCCAGG
230761	CTGGAGTGCA	GTGGCACAAT	CTCGGCTCAC	TGCAACCTCC	GCCTCCCGGG	TTCAAGCTAT
230821	TCTCCTGCCT	CAGCCTCCCA	AGTAGCTGGG	ACTACAGGCG	CTCACCATA	TGCCCCACTA
230881	ATTTTGTAT	TTTTAGTATT	GCTGTCATCA	ATCCACATGT	CCAGAAGCAC	CTAGAACTC
230941	TAATTCCTTG	TAGGTATCAA	ACCTAGGAC	TCTTCTCTCT	AATCACAATA	TATAATCCCT
231001	GATTCCTCAA	CACGGTCTTT	TCATATACAT	TTTCCACTGT	ACATACTTTC	TGAGCTGGAA
231061	AGCTCTTACA	CAAACACGCC	CTCCCCTAGG	AAGCCTTTAT	AAATGTTCCC	AGGAAGAATC
231121	AGTCACCCAA	CAGTGTCTTT	GTCACATCTT	AGGTTCTACA	CCTTTATTTG	TTCTATCTGA
231181	ATGTAATCTC	CCAGAGGGTG	TTATCATCTT	TTTTTTTGAG	ATGGAATCTT	GCTTTGCTGC
231241	CCAGGCTGGA	GTGCAGTGGC	ATGATCTCGG	CTCACAGCAA	CCTCCACCTC	CTGGGTTCAA
231301	GTGATTCTCC	TGCCTCAGCC	TCCTGAGTAG	CTGGGATTAC	AGACGTGTGT	CACCACACCT
231361	GGCTAATTTT	TGTATTTTTA	GTAGAGACAG	GGTTTCACCG	TGTTGGCAAG	GCTTTCCTCG
231421	AACTCCCAAA	CTCAGGTGAT	CCACCCGCCT	CAGCCTCCCA	AAGTGTGTTG	ATTACAGGTG
231481	TGAGCCACCA	TGTCCAGCCC	CATCTTTTTT	TTTTAGTTTA	GTTCTTAACA	AATAGTCTGA
231541	CACAAAGTGG	ATATAACAAT	ATTTTGAATT	ATGAATAACT	AAATGAATAT	TTCCAGATTT
231601	CCTGGTGCTC	TCAAAGTTTT	ATGTTACAAA	AGAAAAACAA	GTCTAAAATA	CCTGCCTCAA
231661	GTTTTTATCT	TACTATGAT	TTCAAACCAA	ATAAAAAACA	GGTGGGGTAA	AAACTGAAAC
231721	AGGAAATACA	TATAACTGAA	AAATTTTGGT	ATGTTAGTAT	GATAATACTA	GGTCATTTTT
231781	CCTGTTTCCC	CAACTTCATT	TTCTATAGCA	ATAAAAAAGAA	ACAAGTAAAT	GTATATTAAT
231841	TTAATTTAAA	AGAAGTAGTC	TACCATCTCT	TCTGTTAAAA	AGAAAAAAGT	ATTTTAAAAA
231901	ATTATCTCTG	GAAGGATACA	CAGGGAACAT	TGCTCTGGTT	TCTTCCAAGA	GAGAAATGAG
231961	GAAGTAGAGA	GCATGGCCAA	GTGGGGTTTT	GCTTTTGTTT	TTGTTTGTCT	ATCTGTTAGC
232021	TTTTTATTAT	TTTCTTTTGT	AGGTTTGAAT	TTCAAACCAC	ATAAATCTGT	TACATGCTCA
232081	TAATAATAAG	TTTAAAATAA	AACTTTTGGC	TGGGTGCAAT	GACTTACACC	TGTAATCCCA
232141	GCGCTTTGGG	AAGCAGAGGT	GGGAGGATAC	TTGAGGCCAG	GAATTTGAGA	TCAGCCTGGG
232201	CAACATAGTG	AGACCTTGCC	TCTGTAGAAA	TAAACAAAAA	TTAGCTGGAT	ATGGTGGTGC
232261	ATGCTTGTA	TCCTAGCTAC	TTGGGAGGTT	GAGGCAGGAG	GATCCTTTGA	GTCCAGGAGT
232321	TTGAGGCTGC	AGTGAGCTAT	AATCACCAC	TGCACTATAG	CATGGGCAAT	AAGGTGAGAA
232381	CTTGTCTCAA	AAAAAAAAAA	AGGGGGGGGG	AAACAAATAA	ATAAATATAA	ACAAAACCTT
232441	TGTTTCAAAA	TATGTAATAT	TTAGCACTAA	AGAATTCTGA	ATTGTAGAGC	TAAAAAGTAC
232501	TTAAAAAGTTA	ATAATTATTG	TCTCCTTTAA	AAGAATTGTT	ATCAAAGTAT	AATTTTTATC
232561	CAGAAAAATCA	TCCATATCAG	CAAGCTAAAC	TTTCTCAAAA	TGACATATCC	ATGTAATTAG
232621	CTCCCAGGTA	ATTAGCAGGC	AGCCTCTACT	CAGGTTGAGT	ATTCCTAATC	TAAAAATTGG
232681	AAATTCAAAA	TGCTCCAAAA	TCGGCAACTT	TTTGAATGCT	AACATGATTG	TCAAAGGAGT
232741	GCTCATGGAA	TATTTAGAT	TTTGGATTTT	TGGATTTGAG	ATACTCAGTA	TAATGCAAAC
232801	ATTCCAAATC	TGAAAAAATC	TGAAATACTT	CTGGTTCTAA	GCATAAGGGA	TACTCAACGT
232861	GTGTTAGCTA	ATTAGACCCT	TCATGGTCTC	TTCTAGACCT	CAGCTTCTTC	AAGGTAACCT
232921	CTATCCTCAC	TTCTAATAGC	ATGAACTTTT	CTGTTTTAGA	ATAATTTGGA	TTTTTCAGGAA
232981	AGTTGCAAAAG	ATAGTACAAA	GACAGTACAG	GAGAGTTCCC	ATATATCTTT	CACCTAGCTT
233041	TCCCCCATTT	TTAGGATTTT	ACATTATTAT	GATACATTTG	TCAAATATAA	GCAACTCACA
233101	TTGATACATG	AAACTCTATT	AACCAAACCC	TAGACTTTAT	GTGGATTTCA	CCACTGTTTC
233161	CACATAATGTT	TTCTTTCTGT	TCCAAGGTCC	AATCTGGAAT	ACCACACTGC	ATTTTCTTGT
233221	CATATCTCCC	TAGTCTTTTT	TTGTCTGTGA	CAATGTCTCA	GTCTTTTCTT	GCTTTTCATG

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233281	ACCTTAACAG	TCCTGAAGAT	CATTTGCTTT	TTTTTCATAA	TTACACCGGA	GTTATAGATT
233341	TTTGTAAATA	ATACCACAAG	GGCAAAGGGC	CCTTCTTGTC	ACATCATTTT	AGGGAGAACA
233401	TGATATCCAC	ATGACATCAC	TGATATTAAAC	CTTCATCATG	TGGTTTAGGT	AATGTTTCAG
233461	GTTTCTCTAC	TGCAAAGTGA	TTTTTTTCCC	TTAATTTAGC	CCACCTGAAC	TTATCAATTT
233521	TGTTTTCTTC	CATGACTAAT	ACTTTTGTTA	TTATAGCTAA	AAC TTCATTG	GGGCCAAATC
233581	TTAGATCATG	TAAATTTTCT	TCTATATTTT	ATTCTAAAAG	CTTGTAATGT	TTGATACATT
233641	CTAAAAGATG	TAATGTTTGA	TACATTACAT	CTAGTCCTTT	GATTTATTTT	TAGTTACTTT
233701	TGTATAAGGT	GTGAGAGATG	TCTCCAGTTT	CAC TTTATTA	ACACATTGTG	GTGTTCCAGT
233761	ACTATTGTT	GCTAAGACTA	TCTTTTTTCC	ATTGATTACC	TTTGCCTTAG	TTGGCAATAT
233821	TTTTGTGGT	TTATTTCTAG	ACTGTTTATC	TCATTCCACT	GATTTGTGTC	TATCTTTTTG
233881	ACAAAAC TGT	TGATTACAGT	AAGCTTTGAA	ATAGTTCATT	TTTTGTGTCA	ACTTGACTGA
233941	GTCAGGGGAT	AACCAGCTAT	CTGGTTAAAC	ATTATTTCTG	GCTGTGTTTG	TGAGCGTGTT
234001	TCTGGATGAG	ATTAGCCTTT	GAATAGGTGA	TCCTAGTAAA	GTAAACTGTC	TTTCCCAGTG
234061	TGGATGGCAT	TATGCCACCT	GATATTCAGG	GTCTGAATAG	AAGAAAAGGC	AGAGGAAGGG
234121	GGAATTTGGG	CCTTTTTTTC	TGCCTCACTG	CTTGAGCTGG	GACATCTCAT	CTGGTCTCCT
234181	GCTCTTGAAC	TGGGATTTAC	ATCATCAGTT	CCTCTGGTTC	TCAGGCCTTC	AGATT CAGAC
234241	TGAATCATAC	CACCAGCTTT	CCTGGGTCTC	CAGCTTGCAG	ATTACAGATC	ATGGGACTCC
234301	TCATCTTCCA	TAAATGCATG	AGCCAATTCA	GTCTATGTCC	TTGAAAAC TG	CCCCACTGCA
234361	GATTAAGGCT	TTTTTCCACT	AGGTGAAATA	AAGAAGCTTG	TTAGACAGAT	TTCCCTTCAT
234421	CCAGTGCCCT	CTCCTCTTTA	AGTTACAACA	CATTGGCTAC	ACCTAAGTGC	AGGGGTGGGG
234481	ATGAGGGTAT	AGTCCTCTTG	TTTGCTGAGA	AGAGAACTGT	ATTGGGAAAG	CTCTAGAAGT
234541	GTTTGATACA	TACATAAACA	AGGCATGGTT	TTTGCACTTA	ATTTACATT	ACATTTTTCC
234601	CAGAAAAAAA	GGAATGTATA	GGCATCACGT	AACTGTACTA	GCTGGAGTCA	TTCTTCCTGA
234661	TTATCAAAGG	TAAACAGTTA	TTAATCCTAT	ACCAAGATGT	CAAGGAGAAG	TACTTTTGGA
234721	ACACAAGGAA	TTCTCTGGGA	GTCCTTACTA	CTCTCAAGCC	CAGTGAAAAA	GTTAATGAAA
234781	AACTATAGTA	CCTTCCTATA	AGCTGGATGA	CTAATTACCA	GGCTCATTTA	GGAATTTGCC
234841	TTACCAAGTA	AAACATAAGG	GCAGCTGAGG	TGCTGACTGA	AGACAAATGG	AGCATAGAAT
234901	AAGAGTAGTA	AAGAATGCCA	AAAATGCTGT	CATGTATCCA	TTGACAAAAG	GAGCTATAAA
234961	GCCTTTAGGT	ATTTTCACAC	TTGCTCTGTT	ACGTAAATGT	ATGTGTGTGT	GTGTGTGTGT
235021	GTGTGTGTGT	GTG				

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1   CACACACACA CACACACACA CACACACACA CACAAATGAG GTATATAAAG GGTCTCCTAA
61  AATGTCATCT GATATTTGTT ATTTTCATATT CTCAGATTTT TAATCCATTT AGGTAGGTCT
121 ATTTTAGATA GCCTTGTCTG AAACAGAGCT GGGACCTGAT GAGTGAAAAT GAGCTCACCA
181 GAAGAAAAAT CAAACAGGCA TTTCAGAGAT TGAGGCCAAG AAGTTAAATG TCTTAAATGG
241 GCAGAGCTTA GCTGCTTGAT GTGAAAAGAG ACCAGCGTGG CTGGAACAGC AAAGGAGAAC
301 AGCAGAAAGAG GTGAACAGAG GCCAGAGATG GTCACTGAGT GGGCCCTTAA GTCATGGTAA
361 GGAGTATGGA GAATGAATTA TTGCATGTAT TGAATATGTA GGTGACGTGA CTCACAGATA
421 CTTTGGATTT GTAGAGATGA AGGAAATGTA GCAAGTGACA CTCTTAGAAT GTTGATTTGA
481 GTAAATGGTA GTGTCAGTTA TTGAACTGGG GAGAACTGGA AGGGATAACA GGCTTAAGGA
541 GCACGTTTAT TCCTGTGTCT TGGAAAGTGT TAGGGTGAAA GACCTATTAG AGTTCATAAT
601 GGAGATGTAAT AGTGAAAATG TGGCTACACA CATTTCGATT TCAGAAAAAA GGTCAGGCTG
661 GAGATGTAAA ATTGGAAGTT TACTGCATAT AGATAGTCTT TGGAAACCGTA GTATTGATGA
721 AGCCATTAAT GAGACAGAAC AAAGACTAGG GACCAGAGCC AAGCTCCAAG TTTCTAAAAT
781 TTAGAGGATA GTATAGTCTG GTCATTTTGA GGTGAATACT TAATAACAGA ACAATTTGCT
841 GAAGTGTAAT TTTAGAGCCC TACACTTTTA GCTCTGACTA TTAACGAATA CAGGAAAGAA
901 TGGATATGGT TATCTGCCTG GTGTCTGTGA AATAATTTAA GCCAGGAAGA GATCCTCACC
961 AGAAACTGAC TATGCTGGCA ACTTGGATCT TAGATTTCCA GCCTGCAGAA TTGTTAGAAA
1021 ATAAATGTCT ATCGTTTAAG CCACCAGTCT GTAGTATTTT GTTATGGCAG TCCAAGCTGA
1081 CTAAGTTTTG GTACCCAGGC GTGGGATGCT GCAACAACAA ATACCTAAAC ATGGGGAAGT
1141 GGCTTTGGAA ATTGGTGATG GGTAAAGGCT GGAAGAGTTT GAGGTTCTA CTAGAAAAG
1201 CCAATTGTGA AGGGACTATT GAAAGAAATA TGGACATTAA AGGCAATTCT GGCAAAGGCT
1261 CAGAAAGGAA GAGAGCTGGA CAGAAAGCTT CCATTTTCAT AGAAACTTAG ATTTATAACG
1321 ATCATGGATA GAATATTAAA TATGCTGGTT AAAATATGGA CTTTAGGCCA GCGTGGTGG
1381 CTCACGCCTG TAATCTCAGC ACTTTGGGAG GCTGAGGGCA CAGATCACGA GGTCGGGAGT
1441 TTGAGACCAG CCTGGCCAAT ATGGCGAAAC CCTGTCTCTA CTAAAAATAC AAAAATTAGC
1501 TGGGCATGGT GATGTGCTTC TGTGGTCCCA GCTACTCGGG AGGCTGAGGC TGAAGAATCG
1561 CTTAAACCCG GGGGGTGGAG GTTGCACTGA CCCAAGATCA CACCCTGCA CTCCAGCCTG
1621 GGATACAGAG CAGGACTCCA CTCCCCCGC CACACACACA CAAAAAATAT ATATATATGG
1681 ACATTAAAGT CAACTCTTGT GAGGTCTCAG ATGAAAATGA GGGACAGGTT ATTGGAAACT
1741 GTAGAAATCA CTGTTCTTGT TACAATGTGT CAAGAACTTG GCTGAATTAC GCTGTAGTGT
1801 TTAGTGGAAA GAACTTATAA GCAGTAAAC TGGATATTTA CCAGAAGAGA TGTCTAAGCA
1861 AAGTATTGAA GGTGTGATTT AGGTCTCCT TACTGCTTAA AGTGAAATGT GAGAGGAAAG
1921 AGCCGAAATA AAGAAGGAAT TTTTAAGCAA AACACAATCA GAACTTGGAG ATTTGGGATA
1981 GATTTCTCAA TCTATATTGT AAAAATTGAG AAAGTTTTTC TTGAAGAGGT ATGGTTGAAC
2041 AATGTTTTCT TTTTCTTTTT TTTTCTTGGT TTTATTTTAA TTTTATGTT TTTTGAGACA
2101 GGGTCTGGCT ATGTCATCCA GGCTGGAGTG CAGTGGCACA ATCTCAGTTC AGTGCAACCT
2161 TTGCCTTCAG GCTCAAGCAA TCCTCCCACC TCAGCCTCCT AAGTAGCTGG GACTACATGT
2221 ATGCACCACC ACACCTGGC TAATTTTTTG TTGTTGTTTA TAGAGATGGG GTTTTGACAT
2281 GTTGCCTAGG CTGGTCTCTA ACTCCTGAGC TCAAGTGATC TGCCCTCCTC AGTCTCCCAA
2341 AGTGTTGGGA TTACAGGCGT GAAACACTGA GCCTAGCCTG AACAACCATT TGATAAAGAG
2401 ATAATGGGTG TGACCCAAGG ATTTAATCAG CCATCTCAGC AGAAGCCAGG AAGAGAGATG
2461 GGATTATTCC AGCAGAGACA CTGCCAATTT AAACCTAACGT AGGCAGAGAA AACAGAAAGG
2521 AACAAAGGAA GGTGTGCGAC TTTTGAATT CTATAGAACA GGATCATAGA GCTACCTGGC
2581 TGTCATATGT TACTATTCTT TAAGAAAAGG AAAGACTGAC CCACCAAGG CAACTTACAA
2641 GATCACTAGG GCTGACTCTT TTTTGTTTTT TCTTGAGGCA GTCTCACTGT CACCCAGGCT
2701 GTAGGGCAAT GGTGTGATCT CAGCTCACTG CAATCTCCAC CTCCCAGGTT CAAGGGATTG
2761 TCTTGCCCTTA GACTCCCAAG TAGCTGGGAT TACAGGCTCT AAATCTGTAC CCTCCCGAGT
2821 AGCGCTCCTG CCACCACTTG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA
2881 CTATGTTGGC CAGGCTAGTT TGGAACCTCT GACCTCCAGT GATCCATTCT CATTGGCCTC
2941 CCAAAGTGCT GGGATTACAG GCAGGAGCCG CCAGGGCTGC CACTTTGATG TCAGACTCAG
3001 AGAGTACAGA TGGGATAGGG TGGGGGTGGG AACATGTAGT CAAGGCTGAC TCTACCTGTT
3061 TCAAAGATGC CTTGCAGAAC TGTGTGGGAG TCTCTCACAG ATGGCTGCCT GGGTGGGACC
3121 CCACCAAACT GAAAGACCGA GACTTCAGGC AGGGCAGATG GAGTAGGCCA ACTACAGAGC
3181 CAGAGGTGAC ACTGAGACAC CACTGGGCCT GGAAATCAGG GCATCAAGCC AAAGAGGGTT

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3241	TTTCTTAAGA	CCTAACAGAA	TTTGCCCTTGC	CAGGTTTTTGG	ACTTGATTAG	GACACATTAC
3301	ACCTTCCTTC	TTTCCTATTT	CTCCATTTTC	TAATGGGAAT	GTCTATTATG	CCTGTTTCAC
3361	CATTGTACCT	TAGAAGCATG	TAACATTTCT	GGTTTCACAC	GTTCAAAGCT	GGAAAGGAAT
3421	TTTGTCTCTG	GATGAATCAC	ACATTGAGCC	TCACCCGTAA	CCTGATTTAG	ATGATTTTTT
3481	AGATGACACT	TTGAACTTTA	GAATTGATGC	TAGAATGAGT	TAAGACTTTC	AGGGGGCTGT
3541	TGGGATGGAA	TAATTTTTTT	TTTTTTTTTTG	AGACGGAGTC	TAGCTCTGTC	GCCCAGGCTG
3601	GAGTGCAGTG	GCACCATCTT	GGCTCACTGC	AAGCTCTGCC	TCCCGGGTTT	ATGCCATTCT
3661	CATGTCTCAG	CCTCCAGAGT	AGCTGGGACT	ACAGGCGCCC	GCCACCACGC	CTGGCTAATT
3721	TTTTTTTTTAT	TTTAGTAGAG	ATGGGGTTTC	ACCGTGTTAG	CCAGAACGGT	CTCGATCTCT
3781	TGACCTTCTG	ATCCGCCTGC	CTTGCTTCC	CAAAGTGCTG	GGATTACAGG	TGTGAGCCAC
3841	CATGCCCCGC	TGGGATGGAA	TAAATTTATC	TTGTATGGGA	GAAGGACATA	CATTTTGGCA
3901	GGTCAAGGAC	AGAATGTTAT	GGACTAAACT	GTGTCCCCCA	AAATTCATTT	ATTAAAACCC
3961	TAAACCCAG	TGTGACTGCA	TTTGACATA	GAGCCTTTAG	GGGGTACATA	AAACTAAAGA
4021	TCACAGGATA	GGGCCCTAAT	CCCATTGGGG	CTGGTGTCCT	TACAGAAGAT	GAGACACTTA
4081	GAGCTCTCTC	TCCACGCAGG	CACCAAGGAA	ACACCATACA	AACACACAGT	GAGATGGCAG
4141	CCATCTGTTA	GCCAGGAACA	GATTCTCACC	ATAAACTATG	TTGGCACCTT	GATCTTAAAC
4201	TTCCAGGCTC	CAAACTGTG	AGAAAATGAA	TTTCTGTTCC	AAGCCTCTTA	GATCTGAGAA
4261	AAAAGATTCT	GTTGTTTAA	CCATCCAGTC	TCTGGTATTT	TGTTATGGCA	GCCTGAGTAG
4321	GCTAAGACAA	TGAAGGATGT	GGTAAACTT	TACGTCCCAA	CCACATACCA	AAGAGGCTGG
4381	AATTTAGCAT	GCTTTCTTCT	TTCAACTGTA	GGCAATGTGC	ACAAGTTCTA	AATCCTAAGA
4441	CATGTTGGCT	CCTTTACTCT	GCCCAAAC	CAACTCAAAC	AAACAACGT	AATATAATAA
4501	CATCCAATGA	AGTTCTGACA	TTTCTTCAAC	ATGAGTACAG	TAATCAATG	CCAGAGAATT
4561	CATTTTATTT	TGAAATCTAC	ATGCCATATT	CCAATTTCTG	TTGAAGATGC	AATGGTTATA
4621	TTTATTCTTT	TTAATATAGA	TTTATCAGAC	TGGGCGCGGT	GGCTCATACC	TGTAATCCTA
4681	GCATTTGAGA	GGCTGAGGTG	GGCATATCAC	CTGAGGTCAG	GAGTTTGAGA	CCAGGCTGGC
4741	CAACATGGTG	AAACCCGTGC	TCTACTATAA	ATATAAAAT	TAGCTGGGTG	TGGTGGTGCA
4801	TGCCTGTAGT	CCCAGTTACT	AGGAGGCTG	AGGTAGAATT	GCTTGAACCT	GGGAGCAGGA
4861	GGTTGCAATG	AGTGGAAATC	GACCCAGTAC	ACTCCAGCCT	GGATGACAGA	GCAAAATAAT
4921	AAATACATAA	AATAGATTTA	TCAGTTTATC	AATAATATAG	TTTTCTTTTC	TAGGTGTAAA
4981	TATAGGTAAT	GACTGTCCTT	TAGTACATTT	TCTCATGATG	CTCCTCTTAC	TTGGTTTGGT
5041	ACAATATTAA	GTATTGAAAT	AAAATAGAGA	ATCCTGTCGC	TACACATGAG	CACTTATTCC
5101	ATTTGCTCAT	CTCCAATATG	CACGGGAAAT	TCTCAAATTG	CTAATAATCT	TGTAACACAC
5161	ATGCATTATA	TTCAACAGGA	ATATATAAAT	TTATAATTAT	AATTTAGGAT	CAACAGATGA
5221	CAAACCTTTA	GAAGGTTTGT	ATTTAACCTT	AAAATATAAT	TTTTTAAAAA	TTGGTTATAA
5281	AATTTCTAAT	ACTTTCTTTT	TTGTGACCTC	AAGGGGAAAA	TATAATTCTT	ATAAAAGTTC
5341	AAATGATTTA	CAGAATACAA	AAAGTGAATA	GAGATGATGA	ATGAATTAAA	GGAAAGGATA
5401	TTGCTACATA	GATTTGGAAA	TTTAAAAAGG	GAAATTACGA	TTGTTGATTT	TGTGTTAAAC
5461	TGATCTGCTT	TGTTCAAGAT	ACCTTATGTA	CCAAAAATG	ATTTTATCTC	AGCCTCATAT
5521	CTCAGTAAAT	TCCTGAGACA	AACTTTAGTC	CCTGGTGCCC	AGGTGCCCTT	GGTAATTGGG
5581	AGACCTCTAG	GTTTAGCATC	CTCATCCACT	CGCCCCAATT	TAAATAGTCC	TCCCCAGGGC
5641	CATTCAGGCA	AGGGAGATGA	AAACTTGCTC	AAGAGTTGGA	ATCCAATTGA	AGCTACCGAA
5701	ATTCATTGCT	CAATAGATAA	TTTTCCCTGG	AAGTAACTAG	GGCTTTTGAA	TATAATAGTG
5761	GGCATTTC	AGTAGAAGGT	AAAGTATTTT	GGAGATGAGG	AGACAGGACA	GAGCTACGAG
5821	GAATGTCCTT	TGCTCAGGGA	CTAGGCTCTT	AGCAGTACCT	CTTAGGTAAG	AACTGGTTAA
5881	CTGGCACCTT	CTGTGTTTCT	CTGAAGCTCC	CTTTGCTTAG	GGACTAGGCT	CTTAGCAGTA
5941	CCTCTTAGGT	AAGAACTGGT	TAAGTACAC	CTTCTATGTG	TCTGAAGCTC	CCAGAACAAA
6001	CTGCCAATGA	AATTTGGATT	TTTGGAATAT	AGTTTCTTTT	TTGTTGTTAC	TTTTTGTTTT
6061	GTTGTTTTTT	TTTGAGAGTC	TCACTCTCAC	TGCAACCTCC	CCCTCCTATA	TTCAAGTGAT
6121	TCTCTTGCTT	CAGCCTCCCG	AGTAGCTGGG	ACTACAGGCG	TGCACTAGCA	TGCCCAGCTA
6181	ATTTTTGTAT	TTTTTAGTAG	AGATGGGGTT	GGTTTTTTTT	TGAGACAGAG	TTTCACTTTG
6241	TCGCCCAGGC	TGGAGTGCAG	TGGCACGATC	TTGGCTCACT	ACAACCTCCA	CCTCCCGGGG
6301	TTCAAGTGAT	TCTTCTGCCT	CAGTCTCCTG	AGTAGCTGGG	ACTACAGGCG	CCTACAGGTG
6361	AACACCGCA	CACCTGACTA	ATTTGTGTAG	TTTTATTAGA	GATGGGGTTT	CGCCATGTTG
6421	GCCAGGCTGG	TCTCAAATC	CTGACCTCAG	GTGATCTACC	CACCTCAGCC	TCCCCAAGTG

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6481 CTGGGATTAC AGATGTGAGA CACCAGATCA GCCTCAGAAG ACATTTTCTA TTGGAAAGAG
6541 AAAACACTAT TAGCAACCTA TTAGTCTAAT ATTTAATACT TAATGTCTTC CTTAGTAATA
6601 AACCAACTCT CTACAACAAA GTGCTTCCTG GCTGCCTAGT CATTGATTCA TTCAGTTCAA
6661 CATTTTCTCA ATGCCCAACA GCCAAGTGTC TCCTGTATGC CAAGTTCTAT GCTGATTATC
6721 AGTATTTGAA TAAGAGGGGG TCTACATCTT AAGTACTGCT TAAGATGAAA GCCTCTAGGT
6781 TAACAAACTT AACACAATGT ATCATTCACT ACTAAATAGA CCGAATACAA AATCTTGTTA
6841 TTGGAGCCCA GAGAGAAGAA TTGAAATTCA AGTTTTCTCT CTCTCCTTTT CTCACTCACC
6901 ACAATAAGTC AGTTGCACCA AGTCTTGTAG CTCTTTACTG AGCCATGTTT TCACGTGTCC
6961 CTTTGTTTTA TTTGCCACAC CCTAAATAAA AATTGTACTG GCTTTTTTTC CCTGGGTTTA
7021 CAGTATTAAT ACATTGTCAA GATTTACCTC TTCGTGTAGA TTCCCTGGGG AAAATTACCT
7081 TTCCTCCTTC CCTTAAATTC TTCAGAGGTT AGAAAGCCAT TAGTAACATT CTGGTATGTG
7141 GACAAAGTTT ACCCATTATG TATGGATGTT TTACTCTTTC CATTTTCTG ACAATAATCT
7201 CTTAAGGAGG TGTGGTTATA GAATAGTCAG CTGTTATAAG TACTGTTTTT CTGGCCTTAC
7261 AACTTAAATT CTTTAAGCTG TTTCTTAGTT TGCTCATCTC AAAATTCGGA ATAAGGATAA
7321 AACCTATCTC TTAGATTGTT GGATTAAATG AATTAAACATA CTGGAAGCTC ATGAAATGTG
7381 CCTGGCACAC AGTAGTGCCT AATAAACCAT CTCTCTTATT CAGCCTGTTT TCTGATTCA
7441 GAATCTACAC TTGCTGAGCC AGGTTCTTTT CATTTCAAGG TGAGCAAAAG CATACAAGGA
7501 AGAGATGGAG GTAGGAAGAG ATTAAGCCCT AGGCCAAGGG AGCTGGAATC AAAGGCAATT
7561 TGGTCAGTGA ATAAAAAGGA TTCCAAGGCC CATAAGGCAA TTCTAACCTT AGGATCGAAA
7621 TTCTCGGACA TACAGGAAAT GCTGGGGGGG GGAAAATCCG GTCTTCTCAG CCCAAGAGCC
7681 ATGTGAAACC AGACCTTCAA ATCTGATGAT TCTCAGCCCA GCTGCCCATT AGAATCGTTG
7741 TAATTTAAAA ATACCCTCGG AAAATTCTAA TATGTGGCTA TCAAAGGTGA TCATTGCTT
7801 TTATGCCACT TTGTTTTTAC CCAAATGGGA CATCCAACCC TTTTCCTTTG AGAGTAGTTG
7861 TAGGGAAAGG AGGGGGTGGA GGGAGGGAAG AGCGGAAAAG GCTGGATCCG CCCCAGAGCCG
7921 GTGTCAGTAT CTGGGAAGTG GGAGGCGCGT CAGCAGTAAA CAGCTTCTGC TAGGATTATT
7981 ATCTCCTGCC ACACACTCGG ATTTGAAGCT TCCAAACGAA ACAATGCAAA ACGCTTCAGT
8041 GGAGTTCCAG AAGCGTTAGA CTAAACAGGCT GGTCTCTGTT GGCCAGTCTG AGCAGCTGGG
8101 CGCAGATGCA TAGGCAAGAC TTAGCCCGCC TAGACTTTTC TGCCCACTTA ATTCGATCA
8161 AAGCAGAAAC CGGCCGGGCG CGGTGGCTCA CGCCTGTAAT CCCAGCACTT TGGTAGGCAG
8221 AGGCTGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CCGGCTAACC TGGTGAAGT
8281 CCGTTTCTAC TGGTGGCGGG CGCTTGTAAT CCCATCTACT AGGGAGGCTG AGGCCGGAGA
8341 GTCGTCTGAA CCCGGGAGGC GGAGTTTGTA TGCAGTGAGC CGAGATCGCG CCACTGCATT
8401 CCAGCTTGGG CAACAGGAGC AAAACTCCGT TTCAAAAAAG CAAGCAAACA AACAAAAAAA
8461 TGCAGAAACC GAGATCCGGA AGAAAACTC GCGGAGATTC ACAGAATCCA GGAAAATAGG
8521 TCTCTAGAAA TTTGTCCATG GTCCAGATC TCCATTTCTT GTGGGTGGGG CAGCTGTTAC
8581 CAGATCCCTA GAAGCAAAGG TTTTFTTGGG GGACCGTGTC TCACTGTTGC CCAGGCTCAA
8641 GGGCAGTGGC ACGATCTCGG CTTACTACAA CCTCCGCCCT CCAGGCTCAA GCGACTCTCC
8701 TGCCTCAGT TCAAGAGTAG CTGGGAGTAC AAGGTATGTG CCACCACGCC CAACTTATTT
8761 TTTTATTTAT TATTTTATT TAGTAGAGAG GTGTTTCACC ATGTTGGCCA GGTAGTGTC
8821 GAAGTCGTGA CCTCAGGTGA TCAGCCCGCT CGGCCCTCCA AAGTGGTAGG ATTAGAGGGG
8881 TGAGCAGAAA GCAAAGGTTT TTGAGTGGCC ACAGGCCCCA CTCTATTTCC TTTTCTGCCT
8941 GTAATGGCAA CCTAGACGCT TGAGCTTCTT AAAATACAAG AGTAAGTTGC ATGTCAGGCA
9001 CCGTTCTACA TTAGGGACAT TAGTCTGTTT TACAGACACC TTTCAACTCC TTGGTTAACT
9061 TTTAGGTAAT ATACTCTGCA CTTTAGCAGG AATGGAACCT ATAACTCTCA CAGAATTAGG
9121 AAAGTGAGGC TGCCTACAGC CTAAATTGAG AAAAAAATAG ACGGGGGACT AGTCGGAGGA
9181 CCAAACAAGG TTACCAACAC GTTAGAGTTT TGCCTTCAAT TTACATTTTT AAAGTAATCA
9241 CAACGAAGTG TTTAGATCAC GAGGCATCCC TGCATGTAAA CTGTTAGGCA CTAAGTATGG
9301 TCGATCTTAC AAAGCATTA CTAGAATATT TCTTTAGAGT ATGATAGTAC GTAAGTACC
9361 TACTATTACA TACAAACAGA CCAACCTTTA GTAACAGCGC TCCCCAAAAA CCGAAAAGCA
9421 GTAATACGCT TTGCTCAAGG TTGGCATAAA ATTAACCTTAC CTTAGTGCCT TTTTTCCTTC
9481 TACCTACAAG CAGTGAGGTT AGCTCTTCCT TTGAAACGGT AGGGGGGCTC TGAAAAGAGC
9541 CTTTGGGTTT GATAGCGTTT CCGGGAGCTC AGATACCTGT CAAATCACTT GCCCTTGGCC
9601 TTGTGGTGAC TCTCGGTCTT CTTAGGCAGA AGCACGGCCT GGATGTTAGG AAGGACGCCG
9661 CCCTGAGCAA TGGTCACCCG GCCTAGCAGT TTGTTGAGCT CCTCGTCGTT GCGGATGGCC

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9721	AGCTGCAAGT	GGCGCGGGAT	GATGCGAGTC	TTCTTGTTGT	CGCGAGCCGC	GTTGCCGGCC
9781	AGCTCCAGGA	TCTCGGCGGT	CAGATACTCT	AACACCGCCG	CCAGGTACAC	CGGCGCGCCT
9841	GCCCCAACCC	GCTCTGCGTA	GTTGCCTTTA	CGGAGCAGGC	GGTGCACTCG	GCCCACCGGG
9901	AACTGGAGAC	CAGCGCGAGA	AGAGCGGGAT	TTCGCTTTGG	CGCGAGCTTT	GCCTCCTTGC
9961	TTACCACGTC	CAGACATTGC	AATCAGACAA	AAATCACCAA	AACCAGCAGC	CTAAGCTCAC
10021	GAGAAAACAA	ACAAAATCAA	GAAATATGTA	AAACATGGCC	GCTTTTATAG	GTAGTTCCTG
10081	GGGAGTAAAT	CCGACTTTTT	GATTGGTCGG	TAGCAAATGC	TAGTCAGATA	GCCAATAGAA
10141	AAGCTGTACT	TTCATACCTC	ATTTGCATAG	CTCTGCCCAC	GGATGACAAC	TGTGTAGTTT
10201	GTCTTCCAAT	TAACATAAGAG	GTACTCTCCA	TCCCTCATT	GCATAAAAGC	CCTATAAGTA
10261	GCAGAAATCC	GCTCTTTACT	TTCGACACAT	TTCTGGTGTT	TTAAGATGCC	TGAGCCAGCC
10321	AAGTCTGCTC	CCGCCCCGAA	GAAGGGCTCC	AAGAAGGCAG	TGACCAAAGC	GCAGAAGAAA
10381	GATGGCAAGA	AGCGCAAGCG	CAGCCGCAAG	GAGAGTTACT	CTGTGTACGT	GTACAAGGTG
10441	CTGAAACAGG	TCCATCCCGA	CACTGGCATC	TCTTCCAAGG	CCATGGGCAT	CATGAATTCT
10501	TTCGTTAACG	ACATATTTGA	GCGCATCGCG	GGCGAGGCTT	CCCGCCTGGC	GCATTACAAC
10561	AAGCGCTCGA	CCATCACCTC	CAGGGAGATC	CAGACGGCCG	TGCGCCTGCT	GCTTCCCGGA
10621	GAGCTGGCCA	AGCACGCCGT	GTCGGAGGGC	ACCAAGGCCG	TCACCAAGTA	CACCAGCTCC
10681	AAGTAAACAT	TCCAAGTAAG	CGTCTTAACA	CCTAACCCCA	AAGGCTCTTT	TAAGAGCCAC
10741	CCAGATACCC	ACTAAAAGAG	CTGTGGCCAG	ACGCCAAATT	TTATTTGGCG	GCGGAGGGGT
10801	ATTAGAATGT	AGGAACTGGA	GAGGGGTGGG	GACAAGTGTT	GCAGCTTAGA	GAGGGACAAA
10861	GGGTCCTGAA	CCCGAAAGAA	GCCAGCCATT	AAAAATGGGT	TTGGGGTCAA	TTCGTTGTGC
10921	TTAAATTTAA	AATGGGGACA	AGCGGCCATT	TTGCTAACTC	GGCGTTCCCG	GAAGAAACCG
10981	CAGGCTCGCT	TAGGTTTCAG	ACCCAGCTGT	CTGTCCCTGT	CTACGTCGCC	AGGATCAACG
11041	GTTGCCGTAA	TGTCATAATT	TCGCCACCAG	CTTCTAGCCA	ATAGGCTGTC	CTGTCATTTT
11101	AAATATTAAC	CAATCGAGGG	AAAGCTGTTT	TGAGACTCTG	ATTTACATAG	CGGACCGGAG
11161	TGGGAACCTG	GGCAGTAACT	GCCTAAGGAA	GGACTCCCCC	TCTGTTTTTCG	TGGCGCACAC
11221	CTTCGTAGTA	TACTGAAGGG	TGTGTCTCCT	GGGTTTCCAA	CTGCCCCGGT	AATAGTCTTT
11281	TAACCTAATA	TGCGTCAGTT	TTGATAACAA	CACTAAGGCA	GTACAGAACT	AAAGATGTAA
11341	GCACTGCGCC	AGATGTTGCT	TCATACACTT	TATCTATTTC	AACTGGTTTA	TTCAAGATTTC
11401	AAATCAAATC	AAATTTTGCT	TGAATCCCAG	GCTCAGTCA	GCCATAAATG	GTGTGTTGCC
11461	TGATTGAAAC	TTAAATCTC	CGTAGGGGGC	TTGTAACATG	CAGAAAAGTT	TGAAAGTTGC
11521	TTTAGGAGAA	GCCAACCTTT	AACTGCTGGG	TAAATTGACA	AGCCTTCGAA	CACCTGAAGT
11581	AAGGCCAGTA	AGGACTAGGC	GCTGGGTGGG	GGAGAATGAA	GAGGAGACGT	CATTAAACTT
11641	AGCACATACA	CTGTGTCTCC	TAGAGGACTC	TCCCTTCCTA	GACAACTGCA	GGCCGCTTTG
11701	TGGCCTGGGA	AATTCCACAT	TCCCTTAAGT	ATTTTACTCA	TGGTCTTTTC	CAGGTAAAGA
11761	TTTTAAGATG	AAGGGTTAGA	CGTAGTCTAC	CTATCTTTTT	ATTCAAGTCT	AGAACACGTT
11821	TTTAGCACCT	AGAAGTTTGC	TTTCTCCATT	AAAAACCGGG	AATATACAAT	AAATAAAATT
11881	AGTGTTAAAG	CAGATTTTTA	CAAACTTAAA	TACCATGTAA	TTTAGGTTAC	AGTTACTTAA
11941	CATAAGGACT	GTGTGATCTT	AAATCTGCAA	TTTCTTTCAC	ACCTGGGAAA	TAAACTAAGG
12001	CCTGTCTTTG	GTGCCAGACA	AGGCCTTATA	CTTGAACACT	GCTGTGCAAT	CACAGGCTGC
12061	CTTGCCTAGA	TAACCTATCT	GAGAAATTCT	GATGAGAAAT	GAAATTTCCA	GAGTCCCTCA
12121	CAAGTAAATT	TTTTTTTCTT	TTTTTTTTTT	TTTGAGACGA	AGTTTCTCTC	TTGTTTCCCA
12181	GGCTGGAGTG	CAATGGCGCG	ATCTTGGCTC	ACAGCAACCT	CCGCCTCCCG	GGTTCAAGCC
12241	ATTCTCCTGC	CTCAGCCTCC	GGAGTAGCTG	GGATTACAGG	CATGCGCCAC	GACACCCTGG
12301	CTAATTTTGT	ATTTTTAGTA	GAGACGAGGT	TTCTCCATGT	CGGTCAGGCT	GCTCTCGAAC
12361	TCCGGACATC	AGGTGATCTG	CCCGCCTTGG	CCTCCCCAAG	TCCTGGATTA	CAGGCTTGAG
12421	CCACCGCGCC	GGGCCTAAAT	GGTTTTTTTT	TTTTCTATGC	CTCTAATGGA	CCTGGTCACT
12481	TATTCCCAT	CAGACTGACC	GCTCTCCTAC	CTGCCAACTA	ACTAATCAGT	GTAACCAAAA
12541	TCTGCAACAA	AAATTCAGTA	TTCTTTCCCC	GCCTTTTCCC	CTTTCTCTTA	CATAGATTAT
12601	GTTTTTGCCT	GTGTTAGATG	AAATAATTCT	ATTGCTTGTT	CTCTCTTCTG	TACAAGTACC
12661	CAGTAAGCAA	ATTATTAAC	TCTTGGTCAT	TTATTTCTGA	ATTTTCCACC	AAGACAGTGT
12721	TTATGTGAGT	CATACAATAA	GAACCAACAG	AAATGTGTGT	CTTGGAACAA	GGTTGTCTAT
12781	CCCTGGACCC	TTTGAGTTTT	CTGTTCACTT	TCCTTTGGCT	TTTGCATGCT	AAAAGTTTAT
12841	CGTCCGCGTT	TGTTTGTTTT	GGTTATTCTA	ATTGGACTTG	GCTGATTGGT	TGCATATTGG
12901	TGGCAGTAGT	AGAATTTGAA	TTCTGGTTTT	CTGGTCACAT	CATTAAGTGA	TTAGTCAGTG

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12961 GAGAGGACAG GAAATCTGGT TTATTTATTA ACCTTTTTTT GGGGTGTTTT TGTTTGAAGA
13021 TGTTGATATT CTCTGTGAGG ACACAGGGTT AGAGTTGGTG TTTTCTTTTC TGACTTTACA
13081 TGGGATTTGA TGTTTTGTGC TTGTATGCCT CTTTCCACCT TCCAAAACCT GTCTTTTTTG
13141 AGTCCAAATA GTTGTGATA TCTGCAAAAC CAGTATTCCT GTGTAAAGAT GATATGAATA
13201 TAAAATGGCT GCCCTGTTAT AACTTTTGAC TTTAAGAAAG TGTTAGGACT AACAGGAGAC
13261 AAAAAGGAAA TCAAGGAAAC CAAATGTCTG GTCTCAATAA CTGCTATGGC AGAGGCTCTA
13321 CAGCTTATTA TTAATTTTAG TAATTTTACA TTATTGCCCC TTCACGTTCT TTAAGTAAGG
13381 TTAGAGGACA GAAGAAACAT AATGTTGTTA CAAATTGGAC TATTGAGTCA GGAAAAAATA
13441 AGAGTGCTTT CAATATCTGA ATAAACAAA GATTTAATAT TTTCTAAACC TTAACGAGTT
13501 TATTGTAAGG GATGTGATGC TGGAAACTAG GAAACTAGAA TTTTCTTCTA AACTGAGAAT
13561 CAGAATTATT CATATTCTCA GCAGTGGTGC CACCTGAGGG ACTTCTGATC TTAATTACAT
13621 ACTTTTATTT CTTTAACTGA TCAACATGCT AAATAGATAA CCTATGGCTC TGTTTTTACC
13681 CACTTTAAAT TCTGTTCTAT TAGCACGGTT AGCTTTCCTA ATTGGCAATA AGATTGAGAC
13741 TATCTTTTTT TTTTTTTTGA GACAGAATTT TGCTCTGTGG CCCAGGCTGG GGTGCAGTGG
13801 CACAATCTCG GCTCACTGCA ACCTCTGCCT CCAGGGTTCT AGCAATTTTC CTGCCTCAGC
13861 CTCCCCAGTA GCTGGGATTA CAGGTGCACC ACCACGCCTG GCTAATTTGT GCATTTTATG
13921 TAGAGATGGG GTTTCGCCAT GTTGCCAAA CTGGTCTCGA ACTCAGGTGA TCCACCTCGG
13981 CCTCCCAAAG TGATGAGATT ACAGGCGTGA GCCACCGTGC CCAGAAAAGA CTATCTTATT
14041 TTATGAATTT AAATAATTGT GAAATTATCC ACTTAAGGGA ATTAATAAAT TATAATGTAA
14101 TCTTAAATTT TAGTTGGCTT ACATAAAGAC TTAATAACA TCAATTTAAA TAAAAACTCA
14161 TTTGTCTAAA AAAAAATCAA AAATTTTCCT TGTGCTTTAA ATGTGCTACC TCTTTAAGTT
14221 CTAATTAAGA GAAAAAAGT TTAAGTGTGA GTTTCATTAG TGGTCTTAGT TAACAGCTTA
14281 AAGTATTTTG TAAAAAAAT ACTTCACAAT TTTTAAATAA CTTAAAAATA TTAATACCTC
14341 TTTTATTAGG TTTTTTTAAT AAGGAAAATA TATAATACAT CTAATCAAGA TTATTTTTTG
14401 GACAAATTGG CTTAATAAAT TCAATTTAAA AATGGCTTCT TTATCTTAT ACTGTAAAAA
14461 TAATATTAGC AGAATATTAT AGTATACACA AGTTTAGGGT TCATATTCTA AAAAACAAAA
14521 ACAAAGCTA ATTTAACTTG CATTTACTAA ATTTCTTCCA CTAGTTGTAC TGGTTACATG
14581 AGTTAACATC ACTTTATTTA TTATTCTAAA ATTGTAAATT ATTCATTGAA CCAAATTAAA
14641 TGATAATAGA TAATGTCATT TTTAAAAATG GAATTAAATT TTATGTTACT AATTATAAGG
14701 ATTCAATGTG TGAGCTTAAG TACTGAGTTC ACAGTGTATG ATAACCTTAA GAATTTAGGT
14761 GAATATTATT AAATTGAGTA AATTAATTCT CAATCTTTGG ATACCTGGAC AATTTCTAAA
14821 TTGGAGGGTA CAAATACAA ATCACAAGAA ACAGTGTAGT TTTATGCAA TAACATTTTT
14881 ACACAGTTTA GAATAACCAT TGATAAACAG ATAAGAGAAC ATATGATTGC CTTAGAATAG
14941 ATACTGTTGC TTTCGCCACT TTAGATTTGT AAATCATGTA CTGTATACGT GTGGGCGTAG
15001 AGGACCATGC AGGTTTTGGA TGACTGCCTC TGTTTTTCGT ATGCCTATGC GGGAACACAA
15061 TTGCCTGCTT TGTTTAAAGG CTATGGTTAA TCCAAACAGC TCTGACTCTA TCAAGTACTA
15121 TAGCTACAGA GAAACACAAG TAAGCATTCC AGATAATGAC TACCTTGAGC CTTTACTTAT
15181 TTAATAAGTT GTTACTGTTT GTTAATGTGG TACATTCAAT TTACTATGGA TTGTCACTCT
15241 AAAATAAGAC TTCAATCTTT TTCTTATTTT TATATAGCCA TGATTTATAT TCATATCTTA
15301 ATGTAATAAC CAATCTTCTC TGACAACATT ATAACAATGC TGGAACCTCC ATTTTCAGTA
15361 CTTCAAACAA CAAATACTGC TTTTATACTT CAGAGCAGAT GGATATGTGC TTCCAGTGT
15421 AAACACATTT GGAATCTCAC TGAGAAATAC ACTATCACTA AAAATACAGT TCTGAGATTC
15481 ATTAAAAGAC CTCCAGAATT CTGGAAGTAG GAAGTTTCCT CTTCAAAGTC TACAGAGGAA
15541 GACGAGGTCT GAAATAGACA GCTTCTTCCT TCTTTTACCT GTGGTATTAT TCTGTTTTGT
15601 CCTTTTCTCC ATTATCTGTC TTTCCAGTGA TGAAATTTTG ATCTGGCCCT CCCAAGTATT
15661 AAAAAACAAG CAAATAAACA AATCTCAGTT ATATTTTACT AAGATATTGG CATGCTAACT
15721 TTTTGCAGGT TTGTAACAAG GACCTTTATA ACTTGACTAA AAGTTCCTAA ATAAGAATAT
15781 TTAGTAGAAA ATTTATTTCT GCCTGTGGCC CACATTTGAG TCAAAATAAT CAATTAGGAA
15841 AAGCCAACTT GTTTAACTAA AGTTGGCCAA ACTGATCTTT GAGACCTATT CATCTAAGAC
15901 AAGCCAATTA AATTCTTGGA GACAATTTGT ACTTTAAGGA ATTCTTATAA TATTTGTAAT
15961 TACCCTCATA ACTTTTTTTT TGCCCTACTT CTGTGCTTCT CTAATATGCA GATTATTAAA
16021 TGTTGTTACA AAGCCATTGT CAAAAAACA AAAAAAACA AACTAAACA ACTACATGG
16081 TTAGACTTGC TCCTTTATGA GATATTTTTA CAAAAAATGG AGGAGTTGAA AAACCTGGT
16141 GCCAGAAATC GTGAAGACAT GGCCTACCTA ACTTGAAAT GTTGGTTGTC AGTGGAATAA

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16201	ACTACACAGA	GATAGCCATA	GTGCTGCACA	GCCAATCTTA	AGTGTTTCTA	GAGAATCACT
16261	AATTGTTTCT	AGAGAATCAC	TAATTGTTTT	CTTTTAACAT	TCTTGGTTTA	TACAAGAAGA
16321	GAGTATCCAT	ACTAAACTCT	TTTCTACTGA	AAATAATGTG	CAAACATAAC	ATCCTATTCC
16381	TAGACAGTTT	GTAGTTTTTT	TCTCCCATT	CTATTTTATA	AATCATCTTT	TTAAATACT
16441	TTGTTGAGTG	AAATCAGTCC	ATTGCTTGAT	ATACCTTGAG	CACAAGTAAA	TAGTATGCCA
16501	AAAATTAAAT	GTCTTTCAGT	CACAGTTTGA	CAAACCTCAAC	TACCCTGAGC	CTATAGAGTG
16561	GTAATAATTG	CCCTACTCAT	AAAGATGGGG	TGAAGATTAA	ATGAAATAGC	ACCTATAGAA
16621	CACTAGTTCC	AGACGTGGTA	TCATGCTAGT	AAAATGGCTG	CACAGCACTG	CTCAATGATG
16681	ACAAAAAGTG	AAGCTTCTGG	AGACAGACTC	CAAGTTTGAC	TCCCAGATCA	CCACATATAA
16741	GATGTGGGAC	TCTGAGGCAG	GTCATTTAAT	CTCTCTGTGC	ATTAGTATCC	TTCTCTATAC
16801	CTTTACAGTG	ATGGTAATAG	CACCTACCTT	CTAGAAGTAT	GTGAAGATTA	AAGATCCTTA
16861	ATGCATATAA	ACCACTGTGT	TTACTGCTGT	TTGACAAATT	TTATTTATAA	CCATCTTTAC
16921	GCTCCTAAAA	GGACTTGAAG	CAGCTTATGA	CTGAAGACTT	TGGTAGGAGT	TGGCCTTCTA
16981	TAAATTATAA	GAATTTTATA	AATTATTTGA	TATGAAAATG	CCAGTTGATC	ATAGTATGTT
17041	TACCGGGGTC	CAACAGGTTG	AGAAAAAATA	CACTTTTTTT	CCCTGAACAT	ATGAAATTAG
17101	CTCTCTAGGC	ATATTCCTAA	GGACTTAAAG	AATGATAACT	ATCATTTCTC	TTAAATCTTC
17161	CAGATTTGGA	AGGATATATA	TATTCAGCAC	ATTGACAGAC	AATCCCAGTA	GTCTTAAATT
17221	AAAAGACATT	AAAAATTAGT	GAAACTTTTC	CTACCTTTAG	CCTGTGTAAT	CCTGGATGAC
17281	CAAGCATAAA	ATTAAATTGA	GTAGAGTATA	CCACTGTAAC	ATTTCTTGAA	AGGTATTCTA
17341	GGTCTGAGT	AATTTCTTTG	GGGTCTGAAG	ATCAGTTTGA	CATATCCTCA	AGTATCATGA
17401	GTTTATTATA	ATTAAGAAAA	AGGGAGTAAA	TCTGGAGAAT	GAGCCACTTT	CTTACTACTC
17461	CTTGACCTCA	GTTCTTTTTT	TCAGAGACAG	GGTCTCACTT	TGTTGCCAG	GCTGCCAGGC
17521	TGGAGTGTAG	TGGCGCAATC	GCATCTCATT	GTAACCTCCA	CCTTCTGGGG	TGAAGCCATC
17581	CTCCTGCCTC	AGCATCCTGA	GTATCTGGAA	CCACAGCAGG	TGCACACCAC	CATGCCAAGC
17641	TAATTTTTTA	AAAAGTTTTT	TGTAGAGATG	GGGTCTTACT	ATGTTGCCCA	GGCTGGTCTC
17701	AAACTCCTGG	GCTTAAGTGA	TCCTCCTGCC	TCAGCCTCCC	AAATTGTTGG	GATTACTAGT
17761	GTGAGTCACT	GTACCCCGCC	CCACTTCAGT	TCTGAGGAGG	AAAAAATATG	TAATAATAAT
17821	GGGACTTTGG	TTTGCTGATT	TAAAGATTCA	TGTAACCTTA	TCATCCAATG	CGCAATTTGT
17881	AGAATAATTA	ATAGAGACAT	CTGGTCTCAT	GTTTCTACAG	TTGCTCATGC	CTTGATAGTA
17941	GATCTCCTTG	CTGCTGGCTC	AGAAGGGTAA	AAGAGCAGAA	ATGATGGGGC	TTCTCTCATT
18001	CTATGAGGAA	ATAGACCTAT	GTAGAGGAGG	CTACCTGTGG	TAAAACCTTA	TCCTCATCAC
18061	TTAAAATTCT	AGGCTTATTC	TCTGACCATA	TCAAGTTTTT	AAATGGTAAA	AGAATTGGAT
18121	TCAAGAGAAA	TATGAATAAA	CTTTTGTTTT	CACTTTTCTC	CCTCCTCTCC	CCCCATTCTC
18181	CCTTCCTTTA	TTTTCTTGTC	CTTAGTTTTT	TTTTCACTTT	TTTGTCTACT	ATTATTTGCC
18241	CAAACCTCAAC	TGTAGGCTAG	AACAAAAAAA	AATTGAAAAT	TAAAATGTGC	CCCTTTTGTT
18301	GTTAGACTTG	CTTAAACAAT	TGGGGTAATG	AACCTTGGAC	ACTAGATTTT	AAAACACACA
18361	CATTTGAGCT	TCAGTGCAC	GAAATAAATA	TATTTTTAAC	AATTAAAAAA	TAAAATTGCA
18421	TGTTTAAAAA	ATCTGCAGAG	AACAATACAC	GTTGTGAGAT	CTTGAATGGA	AGGAAAACCTG
18481	CTAGCCTCAA	GAGTGGATCA	AAGATGCTCA	GCAGGCAACA	GAGTAAGAGC	ATGTTGGAGG
18541	GTTTAGAGAG	TGTGCTCAGG	GTTCTAGGCT	CTAAAAATCA	GACAGTCCCC	ACGGCCTGGC
18601	CTTCGTCGCT	GTATCTTCTT	TATGAAAAAC	ACTAAGTCTT	TTTCCTCACT	GGATAAATTT
18661	TTATCCTTCA	AGTTTAGATC	AAATGGAAC	TTAGGACACT	GACTAGGTTA	CATTCTCTT
18721	TTAAGAGCGT	ACAGACATTC	AAGGGCTAGA	GGATGTGGGT	TTACTGCACA	GGCTCATTAT
18781	CCAACAGCTG	TGCTACCTGG	GAAACTTAAC	CTCTCTGTGC	CTTAATTTCC	TCATCTATAA
18841	CGCAGGGAGA	ATGACAGTAG	GTATCTCATA	AGGTTGTTGG	AACAACATAA	TGCATTGGTA
18901	TCTATTGTGT	AAAGTGCTTA	AAACACTGCC	TGGCACAGAG	CAAACATCCA	GTGAACCTTA
18961	GCCATCATCA	TTATCATTTG	TCTCAGAGTC	AAATACAATA	TCTCATATCT	GATAAATTAC
19021	AGAAGTGAAT	CAATCACTCT	CTCTCTTTTC	TCCAGGGGGA	GACAACAGCT	TTTAGACATA
19081	TCTTTTCCAA	CAGTCGTCAC	TGCTGGACAC	GTTTTCATCT	TGCAAAATAA	CCAATGAAAA
19141	TGAGTGATCC	TAGAAGAAGA	TAAATGGAGG	TATTTTGAAC	AATCAAAGAA	GGACAAATGA
19201	ACACCTGGCT	GAGAAAAATT	AGCTCTTTTT	TCTATGCATA	AAACTATTAA	AATATTCTTC
19261	ATAGAAATTT	ATGACACAGG	AAACATAAAG	ACAAAATTAA	AATAACTCCT	AGTATCTCCT
19321	ATTCTTTTTA	TATGTATATT	ATATATACTC	ATATTCATAT	ATACATATAT	CTCACATCAT
19381	GTATCATATA	TAAAATAAAT	TTAGGTGTCA	TGATATATAT	TTAGATAAAT	ATACTTAGAA

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19441	ACTTTTTTAT	GGATGTATAA	TTTATGGATA	TATTGATAAT	TATGTATTTG	TTATTGACTA
19501	CTTCAATTGA	TTCCCATTTT	TATGCATTAT	ATTATAGATT	ATATAGCTCA	CACATCTTTG
19561	TACATAAATC	TTTGTTCAAA	TATTATTTCC	TAAGGATAGA	CTTCATGAAG	TGGAAAATACT
19621	AAATCAAAAG	TGAAAAACAT	TTTCTAAGGT	TCTTAACATA	TACATTGCCA	AATTGCTATT
19681	CAGGATCATA	CCAATTTATA	ATCCCCAAAT	AATATGAAAA	TTCTGTTTTT	ATAGCACTCA
19741	TATTTACAAT	AAATTTTAAA	AATCACTGTT	AACCTAATAG	TCCTTCAAAA	GAAAAAAAAA
19801	TTGAAATTAC	ATTATTTTAA	TGACTCTATT	AGTGAGGGTC	ATTCTTCCCA	TGTTTCTTGT
19861	TAGCCATGAC	CCTATAAGAA	ATAAACTGCA	CTGCAAAATG	ATAAACATGA	TATCAATCAT
19921	TACATGGGAA	GGCACTATAT	AAAGAATAAT	ACCTTAGGTT	AAGGCCACAT	AAATATTTAT
19981	CAGGTGCCTT	TTCTGCGGAG	GACTCTGAAG	GGATACTAAA	CTGCATTTAG	CTGCATGCAA
20041	CTGAAATTAC	TTTTACCTAC	ATTGTCTCTT	ATAAACATTA	TAACACTCTT	TTGAGAAAAGT
20101	GTTTACTATG	GACTGAATTG	TCTCCCCATC	CCCCCAAATT	CATATATTGA	AGCCATAAAC
20161	CCCAATATGA	CTCTATTCTT	AGACAGGACT	TATAAGAGGT	AATTAAGGTT	AAATGAGGTC
20221	ATTAGGATGG	GTTTCTAACT	GGATAGGATT	GGTGGCCTTA	TAAGAAGAGG	AAGATTCTGC
20281	ACTTGGTCTT	CCAAATTAAA	TAATTTATTT	AAAAGAAAAA	AAAAAAAAGA	GGAGAGAGGG
20341	GAGCTCTGCA	CATATACTGA	GGAAAGGCTA	TGTGAGCTCT	CACAGTGAGA	AGGTAGCACT
20401	CTACAAGCCA	GCAAGAGAGC	CCTCACCAGA	ATCCAGCCAT	GCTATACCCT	GCTCTGAGAC
20461	TTCCAGCCTC	CAGAACTGTG	ATAAAATTTT	GTTGTTTAAA	CCACACAATC	TATGGTATTT
20521	TTTTATGGCA	GCCCAAGCCA	ACAAAGACAG	CATCATTGCT	GTCACCTACA	GACAAGAAAA
20581	CTAAGACTAG	GAGAGAGAAA	AGTTAAACTT	GTCCAAGGTC	ACAAAAGCCA	GAAACAAGTG
20641	AGGTGAGAAG	TTGACCTTGT	TCTCCTCAAT	CCAAGGCCAG	GACTCCTCCA	CTCCACATGT
20701	AGATAGCCAC	CTCACAGTCA	ACAGCCAAAT	GTCCACACCC	CAGAGTCAGC	ATTAGACCAA
20761	GATGTCTTAC	CAGGAGACAA	ATGCCTCATC	TTGAATAAAT	ATGTTCTAAC	AACTTACCCA
20821	TGTA AAAACAT	TGAATCTCAT	GAGAAACAAA	AATGCAAAGT	ATGTAGAAAA	CTATGTTTAC
20881	CACCTTAACG	ACAGTGATAA	AAAGCTTAAT	GATATCCTTA	TAGTCTTGGA	GGGGTTTGTA
20941	TATGTGGTGA	AACAGGTGCT	CACGCACTGC	TGATAGACTG	TAAATTGGTC	CTAGAGAGAA
21001	AAATAAATAA	ACTGGAAGGA	GTTATGCTGT	ATGTTTACTT	TTTTTATGGA	AACATATGAT
21061	ATACCTGGAA	ATTCGATTGG	CCATGCATCT	ATTTCTTCAA	TGGGTATGCA	CAGTTGAGCT
21121	GTTCCCATGC	ACCAGGCACT	GTAATGGGAC	AACTGCACAT	GACAGTCAAA	AATCTCAGTC
21181	TCATGAAGTC	GACATGCTCA	TGGAGAGGTG	CTACCCACTA	AACTAATATT	TGTATATCAA
21241	TTATGGATAC	ATTGGGCCAC	ATTTACAGAA	ATTCACCTAC	AGTGGGTTAC	CAGAAGGGAT
21301	TTTTTTTCTT	GATTGGCAAG	AAGGCTAGGC	TGTTTTGTGT	GGGGCTGGCA	GGAGCTGTCT
21361	AGGCTGCCCA	AGTATGCAGG	TCTCTTCTAT	CATCCTGTGT	TAACCATCTT	CCATGTATCT
21421	TTCAACCTCA	TGGTCATCTG	CAGCATGTCT	AGGGGTCATA	TCTATGTTCC	ATGCAGGAAA
21481	AAAGGGTAA	GGGAAAGGGA	AGTAGGCATG	TACCATTTTA	ATGCACACCT	TGGTTTTTCAG
21541	AAAATTTAAG	AAGAAAGACT	TTCTGCTTTT	CTCTGACTAT	TCTGTATTCT	GGATTACAAC
21601	GCAACAGAAA	CGTCACCTTA	AATTCTAATG	TTTTTCTCTC	CTTGCTTTCA	AAAACCTGACT
21661	CATTAACCTC	CACGTGGCTT	GGAAAAATTA	TTTCAGTCAT	CCAGTAATGA	GCTGTTTCATA
21721	GAAATGTTTT	GGACATCAAG	TCTGTGTTGT	TAGCATTATA	CATGTTAAGC	ATTGAATAAA
21781	AAACAACATG	ATGTGGGTAC	ATTTCTTTTAC	TTACATATAA	GTACTTATAT	ACTTATAGCT
21841	GAAAAGAGAG	GTTGAAATGT	CAGGTGGAAC	AGAAATAAGA	TTACCTAGAT	GTTTCTCCTA
21901	TGGGTGATTT	TCAGCTATGC	TGATCTTTCT	TCTGGGTCAG	GTACTCCCAG	AACTTCCTAA
21961	TTAAATGGTG	GCCCTGATCT	TAGTTCCTCT	CTCCTCTTAG	ACATTTTCCA	GGACTACAGA
22021	AGATGTGCAG	TTTATAAATG	AGTAGCAGAA	ACCTACTGAA	CAAATTATTC	AGGCTCATCT
22081	GAACAGAGAG	GACACCTTCT	CTGCTATACT	CTCTCAGTGA	TTTCCCTGCC	TTGGGGTCAA
22141	TTATTGTCTT	GGACATTGAT	TTAAGCACAT	AATAATTGTT	GTCATTGCTT	ATGTTTGGAT
22201	TTCATCTCCC	AAAATAGATG	GTAAATTCTT	TAGTTTAGAG	ACCAAGTAAT	ACTTACAAAA
22261	AAATTTTGTG	TGTGTGTGTG	TGTTTTTTCT	GTGTCTCTCA	GCCCTGTAAT	AGCATCGTAC
22321	TTACACTTGT	TAGATTTTAA	GAGACAACTT	TTACAAAACA	TGGAATTATC	TACATACCCCT
22381	TTCTACAAA	CAGACAAATT	AAATACTCAG	TAGTTGAACC	AAAAAAGCA	GTTCAAATAA
22441	AATCACTTGA	AATGAAGAAA	TCATTTGAAC	AGAGTTAAAG	TTAATCGTAA	AATAATGTCT
22501	GTAAAAATTA	TTGCCAATCA	AATATAAAGT	TCAAAAATAG	TGCTTGAAAA	AGGAAGAATC
22561	ATATGAAAAG	GGACTACTCA	TTTTAAAAAT	GTTAGATATC	AGGAAAAGCC	AGGAAGTGAG
22621	TATGGTAAGA	GTGCTGTCAA	GTGAAACCCT	GCTAATCTCA	CTGAACATGT	AAAAATCTGT

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22681 AGATGCCTTT ATTTTATTCA CTCACACACA TATGTAGAAA GAGAAATATA TGGTAAACAT
22741 TAAAAAAAAC AAATTAGAAT GTAAAATTAA TACTTTAAAA AATGGGCTGT ATACTTTTCT
22801 TATCACCGBA GATAAGAATT TATTATTTTT AAAATAAAGT TATTTTCTCT GTGACTGTTT
22861 CCATGACTTT GCTACTTAGA AGTTAGAGAT GCCAAAGTTT ATCTAAGAAA ATGTTTATGG
22921 AAATATTATT TCAATAATGA ATGTTTAGAA GACTGAATTT CCTGACTGGG CACAGTGGCT
22981 CATGCCTGTA ATCCCAGCAC TTTGAGAGGC TGAAGAAGGA GGATCGCTTG AGTCCGGGAG
23041 TTCAAGAGCA TCCTGGGCAA CACAGCGAGA CCCTGCAGCA AAGTAAAAAG AAAAAAGAAT
23101 TGAAAAAGGA AGACTGAATT TCCTTTGGGC AAGTCATGTG ACATTCCTGT GCCTCAGTTT
23161 CTTTCATCTAT AAAGTTAATT CCTACATTTT TGGGGAAGGG AGAGAAAAAC TTAGGATAGT
23221 GACTGGCACA GAAGAAGCAC TATATACTAT ATATATGTGG ATATCATTTG TTTTATGGT
23281 ACCATTTTAG CTATCTAATG CAAAATATGA ATCTTTTTTT TCTGGGTCTT AAATTATGGA
23341 ATGTAAGAAT TTTCTAAATT CTCTAATTCT GTGTTAGTTT TAAAGCAATG GAGTAACGTA
23401 TCTGTCAACT TGTAATATA AGGATCAACC TGATCCACAA TTTGACCCCT AGCCACTAAT
23461 ATTTAATAGT ACAACACTCA GAAATTATCA AAGGTCAGAG AAGCCAAACA AATGTAAAAA
23521 CATACAGGTG CTCAGAAAGA TGCACCTGTA ATCTCTCTAA GGAGAAATAT TTTCCAAACT
23581 GAGTGACACG GTGCTTTAGT GAGTTGTGGA ATCAATCTCA TGATTTCCAA CCTAGTGTTC
23641 TTTTAAAAAT GAACTAGTCC ACAGTAGAAT ATACTAAAGT GCTGGTGCTT AAGATAGTAT
23701 TGTTTTCTGG AAAAAAAAAA AAAATTTTTT TTTTTTGAGA CAGGGTCTCG CTCTTGCCCA
23761 GGCTGAAGTG CAGTGGCACA ATCATGCTCA CTGCAGCCTT GACCTCCTGG GCCCAAGTGA
23821 TTCTCCACC TCAGCCTTTT GAGTAACTGG GACCACAGGT ACGTGCCACC ACACCCGGGT
23881 AATTTTTTAA TTGTAGAGAC AGGGTCTTGC TATGTGCTTA GGCTGGCCTT GTGAACCTCT
23941 GGGCTCTAGT GATCCACTAG CCTCAGCCTC CCAAATTTAT GGGATTATAG GCATGAGCCA
24001 CCCTACCTGG CCTGTTCCCT GAATTTTTTT TTCTTTCAGG TGTTTGTGCA TATGTGTGTG
24061 TGTATGGGTA TAACAGAGAG ACAGAGAGAA AGAACTTTT CTATCACACT TTGCAATCAG
24121 AAGTTTGAAG TCTTATCTTT TGGCTTTTGT TTCAGAAATA TTTCAAATGT AGACTCTCTC
24181 CTTTACCACA CTGTCCCCTT AGGCAAGGTC TTTGCCATTG TTCTGAGACT ATTGCAACAG
24241 ACTCCCAACT TCTGACTGTG GGCCCTTCTC AAAAAATGATT GTTTATGCAA TAAATCTAAA
24301 CCAAGACAA CTACAACAAT ACAACAAATT CTCTGCTTAA AACTTCCAA TGTCTGCCGG
24361 GCGCGGCGGC TCACGCATGT ATCCCAGCA CTTTGGAGGC AGAGGCGGGC AGATCATCTG
24421 AGGTGGGGAG TTCGAGACTA GCCTGGCCAA CATGATGAAA CCCCATCTCT ACTAAAAATA
24481 CAAAAAATTA GCCAGGCATG GTGGTGGGCG CCTATAATCC CAGCTAATTG GGAGGCTGAG
24541 GCAGGAGAAT TGCCTGAACC TGGGAGGTGG AGGTTGCACT GAGCCAAGAT CACACCATTG
24601 CACTCCAGCC TGGGCAACAA GAGCAAACT CTGTCTCAA CCAAACCAA ACAAACTTC
24661 TAATATCTAC CAAATGTTTC ACACAAGTAT TTGGGGATCT TCACAAATGG CCCTTATGGA
24721 GTTTTCCTTT GCTGAGACCC TATGCTCTGG CCACACTAAA CTCATTGAGC ATCCCAGAAA
24781 GGCCTCAGCC TTTGTGAGCA AGCTCTTATC TCCAGGCCTC TCACAAAGAC CTGTTCCAGT
24841 AGAAGCTCAG GGGAGCACAC TGGACATTAT TCCAACAACC CTTTCCCCAC AGCTATGCAG
24901 CCAAATCTGC CAGCTCAGTT AATTAATTAA GCAATTCAGA GATGAGGGTC TGCCCAGGCT
24961 GGAGTGCAGT AGCTGCGACC TCAAGCTCCT GGGCTCTAAG TGATCCTCTT CAGTCTACCC
25021 AGAAGCTGGG ACTGCAGGCA TGTGCCACCA CCCCAGCTA ATTTTTTTTT TTTTCAGTAG
25081 GGACCAGGCC AACCTAGTCT TGAACCTCTG GCCTCCAGCC TTCCGAAGTG CTGTAATTAC
25141 AGGCATGAAT CACTGCGCCC AGCCAACCCG CCCAGTCTTG TTAGACATGG GGTCTGTAGT
25201 TTCTAGTAGG TTCTTGAGTC TAGGGTTCCT ACCTCATGTT TTATAGTTAA TTTAGGGGAG
25261 GGAAGTGTG TCCTTATCTG GGGATGTAGG GGTGGGCAGG GGGATAGAGG GGACTTCAAT
25321 TAATGAAACC AGAAGCAAAA CTCAGTTGAG GACACCGGTC ATGAGAGTGG CCTGATTATG
25381 GCCAATCTTA CATAATGTGT GAGATCTTGA TATTACCCCA TCCTTGAGAG TCCTCTATAA
25441 AGCTACAGGG ACTTGGGAGC ACCTTTAATT ACAGACAACC CATGTTCTCT TGGATTATGA
25501 TTTATTAGAT TGCACATGCC TAAATAAAGA CATCCTCTGC AGTCTTTTGA CAATCTATA
25561 AGCATCTTCT GACTCCGCAA TTAGACAGCT AAGAGATCTG TGTTACTTCC CTCACATATA
25621 TAAATAATTT TAAATAAAAA TCATGGCGTG AATAATTTCT TTCCTCTACC GATTGAAGC
25681 TATCCATTTG GAAGACCACT CTGAAGAGAT GAAATAAGTC TTCTGCCAAA GATTACTTAT
25741 TAATTTACAA GGAAAAGGGG AAGTTTGTGT CCTCTCCGTG AATTTGATTG AAAATCGAGG
25801 GCTTCTCGA ATAGTTTGG CATCCAGGGT CATTTTTCAT TAAAAAGAGA AAAGTCATGT
25861 CAAATATGAA TTTCCGCAGA TTATTCAGCA CTAGACCCTG GGAGATTCTG TAAAGAGGGG

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25921	TTTTGTTATA	CTCAACTTTT	CCGGGTAAAA	CAAACACAAA	TACTCCTCCT	CCAAGGGGCG
25981	GGGGCGGTGC	CTAGGTGATG	CACCAATCAC	AGCGCGCCCT	ACCCTATATA	AGGCCCCGAG
26041	GCCGCCCGGG	TGTTTCATGC	TTTTCGCTGG	TTATTACATC	TTGCGTTTCT	CTGTTGTTAT
26101	GTCTGAAACC	GTGCCTGCAG	CTTCTGCCAG	TGCTGGTCTA	GCCGCTATGG	AGAAACTTCC
26161	AACCAAGAAG	CGAGGGAGGA	AGCCGGCTGG	CTTGATAAGT	GCAAGTCGCA	AAGTGCCGAA
26221	CCTCTCTGTG	TCCAAGTTGA	TCACCGAGGC	CCTTTCAGTG	TCACAGGAAC	GAGTAGGTAT
26281	GTCTTTGGTT	GCGCTCAAGA	AGGCATTGGC	CGCTGCTGGC	TACGACGTAG	AGAAGAATAA
26341	CAGCCGCATC	AAACTGTCCC	TCAAGAGCTT	AGTGAACAAG	GGAATCCTGG	TGCAAACCAG
26401	GGTACTGGT	GCTTCCGGTT	CCTTTAAGCT	TAGTAAGAAG	GTGATTCCTA	AATCTACCAG
26461	AAGCAAGGCT	AAAAAGTCAG	TTTCTGCCAA	GACCAAGAAG	CTGGTTTTAT	CCAGGGACTC
26521	CAAGTCACCA	AAGACTGCTA	AAACCAATAA	GAGAGCCAAG	AAGCCGAGAG	CGACAACCTC
26581	TAAAACTGTT	AGGAGCGGGA	GAAAGGCTAA	AGGAGCCAAG	GGTAAGCAAA	AGCAGAAGAG
26641	CCCAGTGAAG	GCAAGGGCTT	CGAAGTCAAA	ATTGACCCAA	CATCATGAAG	TTAATGTTAG
26701	AAAGGCCACA	TCTAAGAAGT	AAAGAGCTTT	CCGGGAGGCC	AATTTGGAAA	GAACCCAAAG
26761	GCTCTTTTAA	GAGCCACCCA	CATTATTTTA	AGATGGCGTA	ACACTGGAAA	CAAGTTTCTG
26821	TGACAGTTAT	CTATAGGTTT	AAGTTGTGAT	GCAGCTGAGT	TGAAAAGGCT	TGAGATTGGA
26881	GAATTAATTC	AGGCCAGGCT	TCAAGACCAT	CCTGGGCAAC	ATAGCCAGAC	TACCATCTAT
26941	ACCAGGGGTC	CTCATTCCCC	CGGCCACCGA	CCGGTAACCG	GTCCCTGTCC	ATGGCACGTT
27001	ATGAATTGAG	CCGCACAGCT	GAGGGGTGAG	CGAACATTAA	CCAACTGAGC	TCCACCGCCT
27061	GTCAGGTTAG	CTGCAGCATT	AGATAGATTC	TCATAAGCTC	AAACTGTATT	GTGAATGGCA
27121	CATGCAAGGG	ATCTAGGTTT	CAGGCTCCTT	GTGACAACTC	AATGCCTGAT	GATCTGAGGT
27181	TGGAGCAGTT	TTAGTCCGGA	ATCATTTGCT	CCCAGCCCCT	GCACCCCTG	GTCCGTGGTA
27241	TAATTGTCTT	ACACAAAACG	GTCTCTTGTT	TCAAAAAGGT	TGGAGACTAC	TGGTTTTACA
27301	AAAAAGTAAA	TTAGTCAAGC	ATGGTTGGCA	CGCTCCCTTA	GTCCCTGCAC	CGAGCGTTT
27361	AAGGATACAG	TGAGCTATGA	TGGTGCTACC	TCACTCCAGC	CTGGGTGACA	GCGAGTCAGA
27421	CGTTGTCTCA	AAACTTAAAA	AAAAAAAAG	TTAAAACAGA	AAAAGGGCTT	CTTGTCTAGAG
27481	ACTGCCGTAT	ATCTAGAGGT	CCAGGAACTA	AAAAGTCTGA	TGTCCAATCC	TGAAAAGCTC
27541	GATGGTGCAC	TAGAGGAGGC	TTTTACATGT	AAGAGCATCT	AAGTTCTGGA	AATGCCAGTG
27601	TCAGGGAAGG	GAAGTGGAGA	GCAATTTGGC	ATCCAAACAT	AACTTGCTGA	TACTTTTTTT
27661	TTTTTTAACA	CAAGTACTAC	ATTCTAGTCT	TTCTGTGGTG	TCATTGTAAC	TATTGTTTCT
27721	TAATATGCTA	TCCACTGACT	TCAAGGGATC	AATAAATAGG	AATCAAGGTG	TCCCAGAATA
27781	TGGATTAGGG	GAGTTTTTTT	TTTGTGTTTG	TTGTTGTTGT	TTTCATCTAT	TCATTATCCT
27841	GTAGCTGAAA	TTTAGAATTT	TCTTCCATTG	TGTGTGACTG	ATAGAAATAA	CAAATTTGTA
27901	GTTTATAGTT	GTTGCAAGAA	TCTGGAAATC	GTGCTTGCTT	ATTTCCGAAG	TACTATTAGG
27961	TATATCAACA	AAAACACACA	TATTACGGTC	AAGTGGTTTG	ATAATTATTT	TAATATTATT
28021	GGTCTAATAC	AATTGTAACC	CTATGAATTA	CTTTAAGTAT	CTTATTTATG	AAAAGAATCT
28081	GTAAGTTTCA	TCAAACCTACC	AGAGCATACC	GAAGACTGAA	AAATTTTAA	AATCCAAACC
28141	TTAATGGAAA	TGTTGGAGGC	TGCCCAATTA	GGTTCTGAAT	TCCACCTTCC	TGAATCACAA
28201	ACTTGTTTTA	ACTCTCAGTC	TGAGGTAAAC	TACGTTTCTC	TTTAAACAGA	CATAGTTTAA
28261	TTTTCTTTTG	ATTTTTGATT	TAGTATTCTT	ACTGATCATC	ATAAATAACC	AATGCTAATG
28321	TTAGTCTACT	TTGGACCATG	GTATTTTCGAG	AAACTTTGAA	CAAAGTCCCC	TGCAAAACTA
28381	TGCATTGCAT	TATTTTCACAT	ACATTTATGT	TTTCCAGACG	GTTCAATAGT	ACCTCACTTT
28441	TCTGAACTTA	TTTGTATAGT	TTGGCATCTT	TTTAAAAATT	GTGTCCTATA	ATGAAAGGTT
28501	GTAAACATTA	TGTTTTAAAT	TTGTATAGAT	AAAATCAACC	ACAGACCTTT	CCTTGCTTGG
28561	ATGTAATTGC	CATTGTTTCC	CAATGAGTTC	GGAATTACTA	GGATTGTGCA	AAAATATGCC
28621	TCACTTGCCT	GACATAGCAG	AGAGCCATTT	TGCCTAAATG	CTGTGCCCAG	CAATGGACTG
28681	TCACCAGATT	CTCATCACAT	ACAGTGAGGA	TGAACAACTA	GCCTCTCCCA	GCAGCTGGCC
28741	GGTCTCTCAA	TAATATGGGA	CTCCCTCAAG	ATGGCTTCCT	GCACCTTTGC	TCCTCTAGCC
28801	TTGTATGTAT	ACAAGGCTAG	CATGCCTGGC	ATACATAAGG	TTAAAAACAA	AATCAATAAG
28861	TTATGGTTCT	TCCTCCAGTT	CTGGGGATTA	TTAGACCACT	TTTTTGTTTT	GTTTTGTTTT
28921	GGATGGAGCC	TCGCTCTGTC	ACCCAGGCTA	GAGTGCAGTG	GCACAATCTC	GGTTCACTGC
28981	AACCTCTGCC	TCCTGGGTTC	AAGCAGTTCT	CTGGCTCAGC	CTCCCACGTA	GCTGGGATTA
29041	CAGGTGCCCC	CCACCACGCC	CAGCTAATTT	TTGTATTTTT	AGTAGACGGG	GTTTCACCAT
29101	CTTGCCAGG	CTGGTCTTGA	ACGCCAGACC	TCGTGATCCA	CCCACCTTGG	CCTACCAAAC

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29161	TGCTGGGAAT	ACAGGCGTGA	GCCACCGCGC	CCGGACTTAG	ACCACCTTGT	TTTGGCCAAT
29221	AGGACAACAG	CCATAGAACC	CTCCGCAAAT	GAGAGCTTGT	CCCTAAAGAT	GCTTTATTTA
29281	CATAGCTGTG	TGCCGCATGA	GCCAAAAGGT	GATAACCTTT	GTTCAACACG	CGCCTCCAGC
29341	CCTTCGGTTA	AGTCCAAAGT	ACCATTCTTA	GAATGCTCTA	AAATACATAA	TTTTTTTTTT
29401	TTTTTTTTTT	TTTTTGAGGA	GTCTCTCTCT	GTCTCCCAGG	CTGGAGGGGA	GTGGCGCGAT
29461	CTCGGCTCAC	TGCAATCTCT	GCTTCCGGGC	TAGCTGGGCC	TACAGGTGCA	GACCACCACG
29521	CCCGGCTAAG	TTTTGTATTT	TTTTTGGTAG	AGGGGGTTTC	ACCATTTTGG	CCAGGCTGGT
29581	CTCGGATTCT	TGATCTCAAG	TGATACACTA	GCTTTGGCCT	CCCAAAGTGC	TGGGATTACA
29641	GTGCTGAGCC	ACTGCGCCCA	GCAAAATGCT	TTTTGTGGAG	CCAATCACTT	TATTAGCGCT
29701	TACCTCTCTA	TGCCTACTTT	ATGCTTTGAA	ATTTTGTGAC	AGTGGGGCCG	GTCATGGCAA
29761	ACACAATTCA	TTCTTATGCA	GGCTGTCACG	GTTATTTCTG	TCATCCAAAC	TCATTCTCGC
29821	AACGCATTTT	AGCTCTTTAA	ACGACTTTGT	GAGCGGCCCT	GAAAAGGGCC	TTTGGGTTTT
29881	TTTGTTTTTG	TTTTTTGAAG	TTCTCAGGAG	ACCGCGTATT	CTTAGATTCA	GCCGCCGAAG
29941	CCATACAGAG	TGCGCCCTG	ACGTTTCAGG	GCATATACTA	CATCCATGGC	TGTGACAGTT
30001	TTGCGCTTGG	CGTGCTCCGT	ATAGGTGACG	GCGTCTCGAA	TAACGTTCTC	TAAGAAAACC
30061	TTAAGCACAC	CTCGAGTCTC	CTCATAGATA	AGACCGGAAA	TGCGCTTGAC	GCCACCGCGC
30121	CGAGCCAAAC	GGCGGATAGC	CGGTTTTGTA	ATGCCCTGGA	TGTTATCCCG	GAGCACCTTA
30181	CGATGGCGCT	TAGCACCACC	CTTCCCCAAG	CCTTTTCCGC	CTTTGCCGCG	ACCAGACATG
30241	ATTCTATCG	CAGTGGAAAG	TATGAACTGA	AACAGTTCCT	TAAATACAAA	CTTGGCGGAC
30301	CTGATTGAAA	ACAACATGAG	TTGGCGCGGT	TTTTTTTTTT	TTTCAAATTT	GGTCACCGAG
30361	TGGGTGGAGC	AAGAAAAACT	GTTTCATTAT	GGTTCATTGT	TTTGATTGGC	CAGTGACAGC
30421	TTGCTCTTTG	TGGGAGTGGA	AGGGTGTTTG	CAAGTTGAAT	GCGCTGTATT	CCTGTCAGCT
30481	TAATGACGCT	AAGCATAGCC	CCATTCCACA	TTTCTTTTTA	TTTCCACTTG	CTAACTAATA
30541	AATTACGGAA	TAGTTTATTG	GGGAACATAC	AAATAATGTT	TAAAGGAGGT	CAGATTTATA
30601	GGTCAAGGGA	TTTACCCTCC	CAATCATTTT	AATATTTTTA	TTTAAACCAG	GCATTTTGAT
30661	GGCCTTCTCT	GTGCTGGACA	AGGTATAAGT	TTGGCTATGA	AGTTTCACTC	CTAAAGACCC
30721	TATGTTTTTG	GAAGGCAAAA	AGGTAGCCAA	ATAATTGCAA	ATTAAACCTC	CATAAGTGCA
30781	AACTTCTTCC	TCGTCACCTT	CCCTATCTCG	ATTCAAATAT	TTGTTGAATG	ACTCATTTTT
30841	CTGCAAAAGT	CTGAGAGAGA	CAGGGAATAT	AAACTTAAGT	CTGGATAATA	TGTTTTCCCG
30901	GGACGCTCTT	CCTGGTCTGC	TGTGCCTGTT	TGCTGTGCCT	GAAATTCCAA	ACACTCTTCC
30961	CTTCCCTCCG	TTTTTAATCC	CCTTTCAACT	TGCTACAGCT	TTAGAGAAAA	GAACATACGT
31021	TTTGTACAGT	TGGGGATTAA	TTGAAGTGTA	GGGCTAATAC	TTGATTAAGG	TCATTACAAA
31081	ATCTACAGGG	TCTTCTCTG	GGAGGTTTTT	GTGATAAGAT	TATTGGTGTT	AAAATAAGGC
31141	TAATCCCCTT	GAAAAATAAA	TAGAATAGCA	GAATTGGGTC	TGAATGTGGT	TTGAAGAAAG
31201	GGACTTCTCA	ATTCAAAATT	TTATTCTTAG	CTTCCCTGTG	GAGCTTTCCA	GAATGCCCAT
31261	AAGATCCACT	TTTGTTTAAA	AAACAAAAAC	AACCCACCC	ACCACTCTCT	GGTTAATAAA
31321	TGAATTTCTA	TTGGGAATAT	TTAGAATGGG	GCTGTGGCCT	GTGAGAGACA	TTATATAGTA
31381	ACCTCAGACT	TGCTCACATG	AAGAGAAGAA	ATCCAGGAAT	GGAGAAAAAA	GACCCAGGAA
31441	AGGCCAGAAT	GCTCTACATG	TCATATTGTT	TGTATCACTT	CTGAAATAAT	TGATTACATT
31501	CTTCTGCCCC	AAATTGAGTT	CTTAGGTTCT	TCCACTCACT	GTCCACATGC	CACAACACAG
31561	ACCTTATAAC	TAGAGACTTA	GCTAGGAAGA	AATGTCAAAC	ATTACAGAGA	AAAAATGCAG
31621	AGTCTGAGAT	CATAAGTAAA	ACTCTGAAAT	CTCAACATGC	CTTTTAATTC	ATGAAAATAA
31681	AAAATATAGC	AGCATATGCA	ATATGATAAT	TCTCTGAAAA	CATACATCAT	GTGAACTACC
31741	CTGGAACACA	TCTCGCCAAG	TGCCATCTTC	ATTTTAACCA	GAGGTCTAGG	ATGCCCTTCC
31801	TTTATTTTGC	CTATTATATC	ATTTATAAAA	CCCCATTTTT	ATTTTGATAT	TTTATTTACT
31861	TTCTATTTCC	TGCTCCTAAT	ATCTCCTTTC	TAACTTTTTT	TCAATGACAG	TGACTCAAAA
31921	ACAATGAATG	TCAGAACAAA	TATTTAAAGG	ATCTGTACAT	GTAGATATAT	ATATTTAAAA
31981	TGGATTCTTC	CACTCTGGGA	AGAATTCAGG	CATACTCAAT	CTTATGGTTA	GGGAGAGATT
32041	AGGCTCACTC	GCCTAATCTG	TATGGCTTCT	CGTTCGCTTT	CCATTTTACC	TTCTCTCAC
32101	CCATCAGATC	AAACTCATTC	ATTGAACAAG	AGACCTAAGC	CCTTCAGATT	AAAACCTGTC
32161	AAACAAGTTG	TGGTTGAGAG	GATACATGAA	GCATTCAAAC	AAATAAATCT	ATGATATTAA
32221	TCAGAGGTTA	ATCTATGATA	TTAATCAGAG	GTTAATGCAG	TGGCTCACGG	CTGTAATCCC
32281	AGCACTTCAG	GAGGCTGAGT	TGGAGAGAATC	GCTTGAGCTC	AGGAGTTCAA	GACCATTTTG
32341	GGCAACATAG	CAAGTCTTCA	TCTCTACTTA	AAAAAAAATA	ACCAGAGGTG	TTATGAAAAA

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32401  ATAAATTGTC  CAGAACTACC  CTCCACAAAC  TAACTCTCTC  AGAATATTCG  ATATGAGGAA
32461  TGAAATATGG  TGTGTGTGTG  TGTGTGTGTG  TATGTGTGTG  TGTGTGTGTG  TGTATGCACC
32521  TATATATGGC  ACCTATATAT  TCAACAAACA  ATTCTGATAA  TTGGCCAGGG  TTGAGAAATGA
32581  CTAGCAGCCC  AGCATACACT  ATCAGTTTTA  AGTATATAAT  TGCGCTTTAG  TAAAATGTAA
32641  AGAAATCCCA  GAGTAGAAAT  ACTTTTAAGC  TATATTACAG  GTGAGAAAAT  GCATAAGTAT
32701  AGTCTCACCC  AACTTAGACT  ATGGGGGCTT  TATAATGTCA  CAACAGTTGT  TTCCAGGCAT
32761  TTGGGGACAT  CACCACTGGT  CTTGGGCAAG  AAACCTCCTC  AGCCAATGGC  TGATTATCT
32821  CACTCCCATC  TAAGGCTTCA  CTGCATTCT  CTTTTTCAGC  AACCTAACTT  ATTTAAAAAT
32881  ATCCATTTTC  TGATTCAATT  TTTTCTGAAT  TAAACTGTCA  GTACCATTGG  CACACCTTTG
32941  GTTCCGTAGC  ATACCTGTGT  CTCTGCTGTG  GTTTTTTTTA  CCTCCACTCC  TTACTTTTCT
33001  AGAAAAAAT  CTCTGCTTTT  TCTTTTCAGT  TTAAATTATT  TCACAAAAAG  TTTTCTTGAC
33061  TTGCACTTCC  TAGGCTTGCT  GTCCTTGTGT  GGGCACGCTC  CCATAAACAC  TATTAATACA
33121  CTTCGATTTG  TTAATAATAA  AGATATCTGG  ACAGAAAAAT  TCTTTTCTTT  TTTTAAGATT
33181  TTAAAAATTT  TAATGTTTAT  TTTTTTCCTA  GACTGGAGTA  CAGTGGCACC  ATGATGGCTC
33241  ATGGTAGCCT  ACATTCCCC  GGGCTCAAGT  GATCCTCCCA  CCTCAGCCTC  CCAAGTAGCT
33301  GGGACTACAG  GTGTGCACAA  CCACACCTGA  CTAATTTTGT  TTATTTGTTT  GTTTTGTTTT
33361  TTGAGATGGA  GTTTCGCTCT  TGTTGCCAG  GCTGGAGTGC  AATGGCGGGA  TCTCGGCTCA
33421  CCGCAACCTC  TACCTCCCAG  GTTCAAGCAA  TTCTCCTGCC  TCAGCCTCCC  GAGTAGCTGG
33481  GATTACAGGC  ATGCATCACC  ACGCCAGCT  AATTTTGTAT  TTTTAGTAGA  GACGGGGTTT
33541  CTCCATGTTG  AGGCTGGTCT  GGAACCTCTG  ACCTCAGGTG  ATCTGCCCGC  CTCGGCCTCC
33601  CAAAGTGCTG  GGATTACAGG  CGTGAGCCAC  CACGCTCGGC  CACTAATTTT  GTATATTTTG
33661  TAGAGATGGG  CTTTCCCTGT  GTTGTCCAGG  CTGGTCTTGA  ATTCTGGGGC  TTAAGTGATC
33721  TGCCCACTT  GTCCTCCCAA  AATGCTAGGA  TTACTGGCGT  GAGCCACCAG  GTCTGGCTGG
33781  AAAGATAATT  TCTAACATTA  TCCTCTCTTA  AACATTTGTT  TCAAAAATTT  TACAAACATG
33841  AGAGTAATTA  AATTTGATTT  TCAAAATTC  CTTGAATACT  TTCTTAATAG  CACACAGAAA
33901  GCACAAAGTA  TTTTACATTT  GTTTTAATGA  TGAAATTGTG  AACCCAAACT  TACACAAAGA
33961  AAAACCGTAA  CATTATACCC  ATACTTAAAA  CAGATGCCCT  CATATACATA  GTAAACTCT
34021  TGGGGGCAGT  AGTGAAGTTG  GTTATTTACT  GTTTTATGAA  AGTGCCATTC  AGCCGGGTGC
34081  AGTGGCTCAT  GACTGTAATC  CCAGCACTTT  GGGAGGTCGA  GGCAGGCTGA  TCACGAGGTC
34141  AGGAGTTCAA  GACCAGCCTG  ACCAAAATGA  TGAAACCCTG  TCTCTACTAA  AAATACAAAC
34201  ATTAGCTGGG  CGTGGTGGTG  TGTGCCTGTA  GTCCCAGCTA  CTCAGGAGG  TGGGGCAGGA
34261  GAATCGCTTG  AACCTGGGAG  GCGGAGATTG  CAGTGAGCCG  AGATCGCACC  ACGGCACTCC
34321  AGCCTGGGAG  ACAGGGCGAG  CTCCGTCTCG  AAAAAAAAAA  AAAAAAAAAAGT  GCCGTCATAG
34381  TGACTTAGTT  TTAAGGAATA  AATCAAGGAT  ATTTAACTCA  ATAGACTACA  GTTAGCTAAC
34441  GTGACTTGCA  CTGAAAGTTA  TACGAATATT  GGTACTTATT  CCCCTGCCCC  TGAAGTATGA
34501  ATTAAAGACT  CCAAAATTC  TTTTAGAATC  TTCAGAGTAA  AAGCTAGAAT  TTGATTTTTT
34561  TAAATAATAA  AAAAATACTT  TGTATCTAAA  TCTGGTGTAT  AAAATAACTT  GGTGGATGAT
34621  GCTTCAAGGC  TATCCATCCC  CAAATTTCTC  CCTGAATGAT  AAAGAGAATA  AATGAATATG
34681  TCAATTCAAA  AGTTAGAAAT  TTGGCCGGGC  ACGGTGGCTC  ACTCCTGATA  ATCCTTTCGG
34741  ACGCTGAGGT  GGGTGGATCG  CATGAGCTCC  GGAGTTCAAG  ACCAACCTGG  GCAACATAGC
34801  CAGAACCCGT  TTCAATAAAT  AATAGAAAAA  AATGAGCCAG  GCGTGGTGGT  CCCAGCTACT
34861  CAGTAGGCTG  AGGTGGGAGG  ATCATTGAG  CTCAGGAGGT  CGAGACTGCA  GTGAGCCGTG
34921  ATCGCAGTAC  TGCACACCAG  CCTTGGTGTC  AGACTGAGAC  CCTGTCTCAA  CAACAACAAA
34981  ACAAGTTAGA  AATTTGGCTG  GGCGCGGTAG  CTCACGCCTG  TAATCCCAGC  ACTTTGGGAG
35041  GCCAAAAGG  GCGGATCATT  TGAGGTCAGG  AGTTCGAGAC  CAGCCTGGCC  AACATGGTGA
35101  AACTCCATCT  CTAATAAAAA  TACAAAAAAA  CTTAGCCGTG  CATGGTGGCA  TGCGCCTGTA
35161  GTCTCAGCCA  CTTGGGAGGC  TGAGGCAGGA  AAATTGCTTG  AACCAGGAG  GCAGAGGTTG
35221  CAGTGAGCCG  AGATCATGCC  ACTGCATTCC  AGCCTGGGTG  ATAGAGTGAG  ACTCCATCTC
35281  GAGAAAAAAA  AAAAAATTC  GTATGAACTG  AACAAAATAT  CCTTAAATTT  TAAAATACAT
35341  CTGAAAGATA  TTTCAAAATA  TTTAGGAAAA  AAATTATAGG  GATCAGGCAA  ATTCTGAGAT
35401  TCCTTTTTCC  CTGCAGCAA  CATTAGGAGT  GCTGCTGTT  CTAAAAACAT  GGTAACTGTT
35461  GCCACACCGT  ATGTTTCCTT  GGCTCAGACA  TAAGGTTGTG  TAGTTGTTAT  TCCAGAATAG
35521  CTAGAATAAA  AATCCAGCAC  ATCATTTTCT  TCAGCAAGTT  AACTAACCTC  TCTGTGCCTT
35581  GGTTCATAA  CAGCAACATA  AGCATAACAG  AATAGCAGCA  ATAGCTCCTA  CCTACCTCAT

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35641 AAGATTCTTT GGAAGAATTA AATTAAGATT CAGAACACAG CCTAATATCT AGTAAGTAAT
35701 AATAATTGGC TAAAAAATT TTCTTAAGAT TATATATATT CATGGGGTAC AAGTACAATT
35761 TTGCTACATT AATATATTGC ATTGTGGTGA AATCAGGGCC TTCAATCCAT CCCGGAAAAA
35821 AAAAGTTTTT GAAAAGATTT CTGCCATGGA AAACTTTTAA TGTACAAATT CATCCATCCA
35881 AGAAATAGAA AATATATAAG TATCAACTCC AAATCCACCA TATCTATCTC TTCTGCACCT
35941 TAAACAATTA CTCAGAAATA GAATGCTTGA GATACCAGAA TGCATGCATA TCAAGTAATA
36001 AATGCATGCA GGATGTCAAC GCATCCTAGG CTTTCAAATA AAATGTGCAT ACAAATACT
36061 TTAATATTGT AGTAACATTC TACATGTTAG AGTGTAGAAG TTAATCGCTG ATGCAAAAAA
36121 GGAAAAGAAC ACATTATACC CAAAGCCTAC AGAGAGAATC ACAATTACAA ATATCAGCCT
36181 GCATGTGAAA ATCTTTAATT TGAAAGTCAG AAATATTTAA ATGATAGTCA TTGTTAAATC
36241 AGATTGTGGT TTGAAAAAAA GTTAGTTTAA AACTGAGTTT ATGAAAAATT TGGGGATTTT
36301 AGAGACAGTG TTTGTTTTT AAATGTGTGT GAGTTTGTGA AGAATGTTTT ATAAAATACT
36361 GACAGTATTA TAAGATGACA TTATTATAAT ACAACATAAG AATTTTGCC TGTACCTCTC
36421 AGCAGTCCTC AATCACCTGC TGTACTTGAC TCAATGATTA TCAGAGTGGT TTGTTTTCTC
36481 TCTGTTGTGT TCCCAGTTCA GGCAGCTCAG CAATGGCCTG TGATTCCAGC AATTCAAATA
36541 GCTGGTAAGT AGTTTCTTGT TTGTTTTCTC AAATTTTCAG GGGCTTTTCT CTACAAGTGA
36601 TTTCCAGTGC ACGCCCTCC ACCCATCTT TATTCCTTTA CCTTCAGGAA AACCCCTCAGC
36661 GCTGCATCTC TGGTCACCGG ACCACCGTGG TACATTTACC TATGGCCACC AGGTGTCACC
36721 CTTCTCTTTA CTACCATGGT TTGTGAATGG TTTTGCCAGA GGTGAATAAG AATTTAAAT
36781 GCAGGTCTTT GATTTTTCAA ATGTAGTTGA CCTTAAGAAT TTATGAATAA AGCCAGAAAA
36841 ATTAAGCTTA AAAAACACCG AAAGAAATG AGGACTTAAA ATTTCTATTA AAAAAATTAA
36901 CAGGCCACAG TTGCTGATGT TTAGTAAATG TGTTAGTGAA ATGTGTTACT GTGAAGACTG
36961 GGGTGTCTCT TGAAATCTCA GCCCAGGTGA AATAAAACCA ATATAAAACA AATGCTTACC
37021 TAATAAATTA ATTGTAACAT ATTCCTTATG AGGTAGAAGA GTAAGTGAAG CCTTATAGCA
37081 GTCTGCTTTC AGTATAGTAA GATATTAAGA GAGAAATAAT TTGTCATATG CTTTCAGAA
37141 GGTTTGCTGG TAAAATAACC AATGTCTTAC AACTTAGACG ACAATGTCCC TAGAGTGAAG
37201 AAACACGATT AATTCGGCTA CCACAGTTGA ATGAAAATAT TCCGTAAGAC AAAATGTAAA
37261 GAAATTAGAA GCAAAATAAA TGTCTCCAAA ATGACAAAGC GATTAAGTAT ATACACAAGA
37321 TGAACAAGAA CTTCAATAAA ATCATGCAGT ATACAATACA ATGTACATTT ATTAAAGTAT
37381 ATGCATTTTT AATGCAACAA TAATACTAAC AGGTAATAGA CAAGTTGTTA ATAGTTTTTC
37441 ACTGGCTAAT TAAATAACAG CTTTAATTGT ATTCATTTTA TAGCTTTTCT ACAATGAGCG
37501 TAAATCACAT TTACTTTTTT CTACATAACT TTTCTAACCA CAAAAAAGA AAATGGTTTA
37561 AAAGAAGAGA TGAGATATCT TTGCTAAAT TTAATGCCTA AAGAAGAAAC TTCTGAGCTG
37621 TATATGGTAT CCTGAAGCAC CTGCCCTTCA AGACAGAATG CTTGTACCAC ATTTATGCAG
37681 CCAAGTGCAT GTAGTAACAT AAAGTAAACA CATGCCATCT GGATATATAT ATTAAGACTC
37741 TTTTGCAGGC TGGGCAGGGT GGCTCACACC TGTAATCTCA GCACTTTGGG AGGCCGAGGC
37801 AGGCGGATCA CGAGGTCAGG AGAGTTCGAG ACCAGCCTGG CCAACATGGT GAAACCCGTG
37861 CTCTACTAAA AATACAAAAA TTAGCCGGGC ATGGTGGTGC ACGCCTGTAA TCCCAGCTAC
37921 TTGGGAGGCT GAGACAGGAG AATCGCTTGA ACCTGGGAGG CAGAGGTTAC AGTGAGCCGA
37981 GATCATGCCA TTGCACTCCA GCCTGGGCAA TAGAGTCTCA AAAAAAATA AAAGACTCTT
38041 TTGAACATGG TGAAGTATT TCCCAGAATC TAGCAATTCC TGAATGTCCT GGTAGATT
38101 TTTTTTTAAT GTGCACCGGA ACCCCAGTGG CTCCATGGAA GGACCTGGGC ATCCTCTAAG
38161 CCACTTGGTG GCTTCCATTA TACCATCTCA AAATGAGAGA GCTTACTCCA CTTTATTGAG
38221 GGAAATACCA CCAGAGTTCT GACTCCAGAG GCACTGGCCT AGGGAGGACA CCGTGTGTGA
38281 AGCCCAGCAG GGCCACTAGC TGTCCCCACC AATTACAGTC CTTGCGTAGG GTCCAAAGAA
38341 ATGAATGCCA AAGAGAGCAA CAGAGGAGCA AGGGAGTCAC ATTCCAGGAC CTTCTTCAG
38401 GGACTTTTAA AGGAAACATG ACAGCTGAGG ATCAGTTGGT TGTTTTCTGC TGTTCCCTT
38461 CATGTGATTC AAGCTCATTC AGAAGAAACA CAATGAGACA AGAGAAGAGC CATCTCCTTC
38521 CTTCTCTATT TATTCTAGGC ATCTAAACTA CTGAATGTAG TGGTGTCTGA GATGTATCAA
38581 ACGGTGAGT TGACTGAGTT TGAAACCTGT TTCTATCACT GACAACTAT GAGATACTCT
38641 ATACTTCACT TTCTTTTTTT TTTTATTTT TTATTTTAT TTTTATTTT TTGAGATGGA
38701 GTCTCACTCT GTCACCTAGG CTGGAGTGCA GTGGCGCAA CTCGGCTCAC TGCAAGCTCT
38761 GCCTCCTGGG TTCATGCCAT TCTCCTGCCT CAGCCTCCG AGTAGCTGGG ACTACAGGCG
38821 TCTGCCACCA CGCCAGCTA ATTTTTTGTA TTTTATTAG AGATGGGGTT TCACCATGTT

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38881 AGCCAGGATG GTCTCGATCT CCTGACCTCG TGATCCACCC GCTTTGGCCT CCCAAAGTGC
38941 TGGGATTACA GCGTGAGCC ACCGTGCCCC GCCTACTTCA CTTTCTTCAT TTAAAAAAGA
39001 AATGGGGATA ATAGTACCTA TCTCATAGAA TTATTGTAAG AAGTGCATGC AGTAATGCAT
39061 GTAAGTAGGT GCTCAGAAGA GTCGGACACG AAGTAAGTGC TTTTATCATC CTTATCATAA
39121 TTTTCATTAT CAGAACAAGG AGAGACCAGG TAGAAAATTA TTGTGATTCT TCAGGTCTGG
39181 AATACTAGAG TAGCATCCCA AATGAAGGCA CCATTAAACT TTGCAAATCT GTATGACACC
39241 TTCATGCCAA TTAGAAAAAA CACCTCTTCA CAACCCCTTT CAAGATATTT GCCTCCTACC
39301 TGCTAAAAAC ACCCATCATA CTACCCACAG ATAGCCATGA TGCTTTTTCT GGGACAGGTG
39361 CCTCTTCCAT TCGTGAGTG TACAGCCTTC ATAGCTGTGC AACTCACATC ACAATCAGAT
39421 GGAAGAATCC CCAAGGCTTG GTGACAGATG AGTTACTGGG TAACACAGAG AGAGGATTCA
39481 AAGGAAAAGT TGAACGGGTC CAGAAAATGC ATAGATACAT GTGTAAAAAT CTGGTAAGGT
39541 TATGACTAGC CACGTCCCAG GGTTCAAAGC TTTTCTCAGA TGTTAAAATG AATCATGTAA
39601 GTCCCCCAA TTTAAGGAGT CCTCTTCCAA AAATAGGAAA TGAAATGACA TAGGTGTATG
39661 TCTCTGAGGT GACGGAGGAA ATGAAGGAAG CCTCTAGATG CAGCTTGAGG TTCATGAGAG
39721 ACAGTTCCAG GGGAGAGGTC ACAGTAGGG ATCACCAGCA TGCAGGAATC CAGAAAACCTA
39781 AATGGGGAAA TCTTTTTGAG GAAATGAACA GAGAAGGCTA AAATCAAGGA GTTCGTCAGG
39841 CAATTTCTAT GTTTAGGTTT AACTCTCTCC TGAAACATGA AGAGCTCATA AATGCATCC
39901 CTCTTTGAGT CTCTAGTTTT GTCTCCTTCC CACAGTGAGT CTGCAGGCTG CGTGTCACTC
39961 ACGTTCAGCT AAGACGTAGT GCCCCATGGC TCCTCCTGTG GAGACAAGAG ACCCAGGAAA
40021 GAGGCATCAC AAACCTAGGC ACCATCTTGC CTCTTCTCTC TTCCTTATTT TCCTCATTCA
40081 CCCATCTCAA TTAGACCTG GGCATATTG GATTTCAAGA ACCATTATCT CTCATCTGGA
40141 AATGCTTATT GGCTTCTAA CTGGTCTCCT CACCTCTCAT CTAATTCTT AACAACACAT
40201 TCACCATATA AGGGAGATCG TGGTCTCCT TTCTTAGGAT CCTTCAATGA CCCCCAGTG
40261 ATCATAACCC AATATCCCAA AAGACCCTTG GACTCTGTAT GAGCTGGCTT CTTTCTGATT
40321 CTCTTTTCCC TACACCACAG ATGTTTCAGG GGTAGAAATG CATAATTGGT GAGTGATAGC
40381 TAAGCAAAC CAGGGTTAAG GTACAGTAAT TATTTCTAAT CTCCAGTAT GCCTTATACT
40441 CTCCTACTTG GCATGGTTGC TCCGTCTGTG TAGACCTCCC ATCATCTTCA ACCTCACCTA
40501 ATGGAATCCA GCTTCTCCTT CAAGATCCAG AAGGCTATCT TGATCCCCAG CTGAATGTGA
40561 TCATTCTTTC CTTTGACACC CTAAGCATTT GCTTCTGCC TGCTTTAGGA CCTCATGGGG
40621 TCTTCTTTAA CTACATTTAC TTGCTATCAA TTTTATTCCC TACCAGATTT GGGTTCTGAG
40681 AATAGCCACA GTGACTTCTC AACCTCAAAG CCCCTGTACT ACCTTAAACA GCTCTTGCAA
40741 AATAGTAGGT GCTCTGAAGA TGTTTGTTGA ATTAGAGACT TTCATTCTGG GGAGAACCAT
40801 TATTTTCTGT CTCCAGGGA GCTGCTGGTG TCCCCAAAGA ATATAAATGA GAAAAATGCT
40861 TCCCATGGAT GCCAGATCCC CTCTGCCCT CTTCCCACTG TGCCCTGGGG CAGAGGTACT
40921 AAGAGACTTC CCCCTTGTTT CTACTCACTT GAACCCTGCC TCTTCCTTAA TATTATGAAC
40981 AAAATTCCAA TGAACAAGAT GACGACAAA ACAGCAATTC CACTGATGAC TCCAATGACT
41041 AGGGTGCCAG ACGGTGAGGG CTCTAAACA GAAAAAGCAA GTTAAAGCCT TTGATTGCCA
41101 CCCTCAGCCC ACCCCCTAAC AAAGAGCAGA TCCTCATCTC ACTGCCATAA TTACCTCCTC
41161 AGGCACTCCT CTCACCCCTC AATAGATTTT CTCAGTCTCT GGCTCTCATC AGTCACATAC
41221 CCCAGATCAC AATGAGGGGC TGATCCAGGC CTGGGTGCTC CACCTGGTAC GTATATCTCT
41281 GCTCTTCCCC AGGGGGTACA GCCAAGGTTA TCCAGCCCTG GTAGGTCCCA TCCCCATTGG
41341 GCAATACGTC TTTAGGTTCT AACTCCTTGG CATCCATTGG CTGCTTATCC TTCAGCCACT
41401 TCATGGTGAT GTTCTGGGGG TAGTAGTTCA AGGCCCGACA CCGTAGAGTG GTCACTGAAG
41461 AGGTACATG ATGTGTCACC TTCACCAAAG GAGGCACTTG ACAGGAAAGA GGAAGGATGA
41521 GGAGAGGGGA TCTGTTTACC CTTGCCAGGA AGACTGGAAC TTTCACTTCC TTCTATAGGT
41581 TGGAGGAAGG AAATACCCTT TTCAGAAAAA AACAAGCTAC AGGAGAGACA CCATTTTGTG
41641 TCCTAAGATT GGAATCTAAC ACAGTGTAC TTGGAGAGCA GTCAGATCAG CTTGTTCTCC
41701 TCACATGTAA ATATACATAT CTGTTACCCA TGTTCTTTGT TCTGATAGAT AAAATTGCCC
41761 TTTATGTGCA TTGAAAATGA TTGAATACAG ATGGTCAGTT TCACCTGGGT CAACCTAGGA
41821 GGCATTGTTA TAAGAAGCGG ACTTGTAAGA TAGGTAGCTT CAGTGATTAT TGCTATGTTT
41881 TATTAAGAA ACTTTTAACC TAAAGGATTC TTCTACTCTG ATAAGTGGCC TCACTTGATA
41941 TTTTGTCTGT GTATTTCATG GATAGCTGAG ATCTCTGAAT TCTCTTTTTT TTTTTTTTTT
42001 TTTTAAAGAT GGAGTCTCAC TCTGCTGCCT AGGCTGGAGT GCAGTGGCGC GATCTTGGCT
42061 CAGTGCAACT TCCGCTTCCC AGGTTCAAGC GATGCTCCTG CCTCAGCCTT CCAATTAGCT

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42121	GGGACTACAG	GTGCGCATGA	CTGTGACCAG	CTAATTTTTG	TATTTTTTTA	GAGACGGGTT
42181	TCACCATGTT	GGTCAGGCTG	GTCTCAAAC	CCTGACCTTG	TGACCACCCG	CCTCGGCCTC
42241	CCAAAGTGCT	GGGATTACAG	GGGTGAGCCA	CCGTGCCCGG	CCTTGACATT	TCTGAATTTT
42301	TAACAGGTAT	AAATATACAA	AAGATTATTG	GTAAATAAAA	AAGCAAGGGC	CATAGACACT
42361	TCCCTTTGAG	CCATATGCAT	GGAGAAAAGA	AATTAAACCC	ATGACTTGTG	GCTGTCTCAT
42421	ACATCTCAAT	TATAAGGTAG	AGACTCTAGG	ATTGAGAAAG	TCCCTTCCCA	GAATTTGGAG
42481	AGGCACACAG	CCTCAGCCAC	CTCTGAAACT	CCAACCAGGG	ATTCCGTGCC	CTGCAACCTC
42541	CTCCACTCTG	CCACTAGAGT	ATAGGGGCAG	AAGTGTGTTT	CCACCATAAC	TTGTTGGTCC
42601	AAAACACCTC	TCCCCAGCTC	CAGCAACTGC	TGCAGCTGTG	CAGGGCAGTC	CCTCTCCAGG
42661	TAGGCCCTGT	TCTGCCTGGC	CCGAATCTTG	TGCCTTTCCC	ACTCCAGCTT	GGTGGGCCAG
42721	GCCCTGGGTT	CTGCTGCTCT	CCAATCCAGT	GTGTGAGGGC	AGAATTC AAG	GTGGTCTGCT
42781	CCATCATACC	CGTACTTCCA	GTAGCCCTCG	GTACTGTTGT	CTTCTTG CAT	TTCACAGCCC
42841	AGGATGACCT	GCAGGGTGTG	GGACTCTGGA	AAAATCCCCA	GCCTTGTTAA	CTGCAACCAA
42901	AGGAATAGGT	CCCTATTTCC	ACCATCCCCA	AGGACCAAAT	GATCTCAGGA	AGCAAATTCC
42961	TTCCCTCTTC	CCTGCTCCCA	CAAGACCTCA	GACTTCCAGC	TGTTTCTCTC	AAGATGCATG
43021	AAAAGATGAA	AAGCTCTGAC	AACCTCAGGA	AGGTGAGGCC	CCCTCTCCAC	ATACCCTTGC
43081	TGTGGTTGTG	ATTTTCCATA	ATAGTCCAGA	AGTCAACAGT	GAACATGTGA	TCCCACCCTT
43141	TCAGACTCTG	ACTCAGCTGC	AGCCACATCT	GGCTTGAAAT	TCTACTGGAA	ACCCATGGAG
43201	TTCGGGGCTC	CACACGGCGA	CTCTCATGAT	CATAGAACAC	GAACAGCTGG	TCAATCCAGT
43261	AGCCCAAAGC	TTCAAACAAG	GAAAGACCAA	GGTCCTGCTC	TGAGGCACCC	ATGAAGAGGT
43321	AGTGCAGAGA	GTGTGAACCT	GGAGACAGAG	CAACAGGCCT	TAACCATGTG	TAGTAGGAGG
43381	GGAGCAGGAT	GTTGAGGCTC	CACACACCTG	CATCAACTCA	TACCATCAGC	TGTGTCTGGT
43441	CCTCATTTTG	TGAAGGGTGA	GTTGCAGTCC	TGTCTTTCTT	CCATATGACA	GTCTTGGGTG
43501	CTCTTTCCTT	GTGTGCTTTT	CTCTGCCACA	CGTGGCTGCC	ACCCCTCAC	TGCCCCCAGA
43561	TCCTATTCCA	ATACTCATGA	TTAGACAGAC	TCCACTAAAG	CTGGTGGATT	CTAGAAAATG
43621	TTAAGGTGTG	TCTAGCCATG	GTAGTTGAAC	TCAGGAGTTG	GTGCTCAGGG	CAAATTAGAC
43681	CCAAATCCTG	AGGAATAATT	CCTTCAGTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT
43741	GAGACAGAGT	CTCACTCTAT	CACCCAGGCT	GGAGTGCAGT	GGCACAATCT	CAGCTCACTG
43801	CAACCTGCAC	CTCCTGGGTT	CAAGGGATTG	TCCTACCTAA	GCCTCCTGAA	AACCTGGGAC
43861	TATAGGCGTG	CGCCACCACA	CCAGGCTAAT	TTTTGTATTT	TTAGTAGACA	TGGGGTTTCA
43921	CCATGTTGGC	CAAGCTTGTC	TCAAACCTCT	GACCTCAAAT	GATCTACCTG	CCTCAGCCAC
43981	CAAAGTGCTG	GGATTACAGA	AGTGAGCCAC	CGTGCCAGC	CTTGGTCTG	CTTCTTTACA
44041	CTGAAGTGGC	TATGTGGCCT	CACCACTTGG	AAGCCTGACT	GGAATCTCAA	ACTTAACATG
44101	TCCAAATGCA	GATCCTTGAT	TTACCCCCAA	CTGCTCTTTC	CTCTGCCTTC	ACCATCTCAG
44161	AAATGGCATT	GCCAATTACC	CCACTGCTCA	GGCCAATAAA	ATTAAAATAA	AGAACAAAGT
44221	CAACTTTAAC	TCTTCTCTTT	TTCAGGGGGT	CAGGGGAGAC	AGGGTCTTGC	TCTGTACACT
44281	AGGCTGAAGT	ACAGTGGCAC	AGTCATGGCT	CACTGCAGCC	TCAACTTCCT	GGGCTCAAGC
44341	AATACCCTCC	ACCTCAGCCT	CCCGAGTAGC	TAGGATCACA	GGTGCATGCC	ACCACACCCA
44401	GCTAATTTTT	GTATTTTTTG	TAGAGAAGGG	GTTTTGCTGT	GTTGCCCAGG	CTGGTCTTGA
44461	ACTCCTGAGC	TCAGGAATCT	GCTCTCCTTG	GCCTCCTCCT	TGGCATGAGC	TACTACACCC
44521	AGCCAATTCT	TCTCTTTCTC	TCACACAACA	TAGAATCCTT	CAGCAACTTC	CTTCAGAATA
44581	TATTCAGGAG	ACAATGGTTT	GTCCTCCCTT	TTTCTGTTCC	CACCCAGCCC	ACTCCACTAC
44641	CTCTTGCCCTG	GACTGTGTAA	CAGCTTCCTG	GCTGGGCTCC	CTGCTTTTAC	TGTTGCTCCC
44701	TTCATTCTGC	TTTCCACATA	GCAGCCAGAG	CAATCTTTTA	AAAGCCTGTG	ACAGATCACT
44761	GTTACTCCTT	GGCTAGAATT	CACACCACAG	CCTACAGGCG	CCTGCACAAC	CTTGTTTGTG
44821	GCTCCTCTTC	TGAGCCCAT	ACCTACTTCT	TGGCCTCTAC	TCCCCAGCAC	TACTTGTTTA
44881	TTTTTTTTCAA	CCCGAGCTTC	TTAACCAGGA	GTTTGTCTAC	TAGGTGACAT	GTGGCAAAGT
44941	TTAGAGACAT	TTTTGGTTGT	CAAGACTGGG	GGAGTGCTCC	TAGCACCTAG	TGAGTAGGGA
45001	GGACAGGATA	CTGCTAGACA	TCCTACATGC	AGATGGTAGT	CCCCCTTCCC	ACCCCCACGC
45061	CGCCCCCCCC	CCCACACACA	CACACATGAG	TAGTGCTGAG	AAAACCCGCT	TTTAAATCCA
45121	ACTTGCCAGG	CCCACTCAGT	TTGCCTGGGA	AATACTGCTC	CCAGTCAATA	TCATTCTTAT
45181	TTCTTTCATG	TCTCTGCTCA	AGTGTGAGCC	CCAGAGTGAC	TTGCCCTGAC	TTCTCTGCTT
45241	CTCACAAAC	CCATGATTTC	CTGATGTTGT	ATATCTTTCT	GCTCATTTGC	TTATTGTCTAT
45301	CTCTCCCACT	AGAATGCAAA	ATATCAAAGG	GTAAAGACTT	GTTTCCCTGC	TCTCTCCCTT

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45361	GGGGCTTGAA	CAGTGCAACA	CATGGCTGGG	ACTCATTTAC	ACTTGTAAC	AATGAATATT
45421	TCTGCTCAAC	ATGAAATTTT	ATTATTCAAC	CTCTAATGCA	GTGTGATGTT	TAAGAATCAT
45481	AGCTATGAAG	TGGAGACATG	AGCTCTGCCA	CCAAAGCCCC	GTGTACCATT	GAATAAATTT
45541	GCCAGGAAGC	AGGCCGTGCC	ATGCCTCATT	CTTGTCATGT	GTAAAATGTG	GATACACGTA
45601	GTACCAAAAC	TCAAAGTGCT	GTGCTGAGGC	CGGCGTGTGA	CCCACAGAAC	ACTGTGCTAC
45661	ACTACAGGGC	AAAATCACTG	TCAACTAAGA	TTAGAAGCAG	CTGTAGTACT	TGAAATAACA
45721	TCAGAAAACC	AGATTATTTA	TGTTCTTTGT	AACCTGAAAA	GAGTTATATA	ATCTGAATTC
45781	CAGTTAACTT	CTAGTAAAT	AAACGTATTA	TTAGCTCCTA	CCTCCCTATG	CCTAGTGAAA
45841	ATCAAATAAG	ATCAGATATG	AATGTAACTT	AGAAGTGAGT	GCATTGCTTA	CATGTTTCATT
45901	ATCAGTACTT	TGTAGAGAGG	CCTCTTAATT	ACACAGCACA	TTGCAAATCA	ATAAAGCCTA
45961	GCCGAAAAGA	GAATTGTTCA	GTTCAAACGT	TCAAAACTAA	CATATACTTA	ATTTTCCAGG
46021	CAAAAGAACA	ATTGCCAAGA	GTGGGGAAAG	GCCCGAGGTA	GGCCTCTCTC	AGGAGCCTCC
46081	CACCTTAGAG	ACCTCCACCC	CAGGTCTCAC	CAAAAGTGGG	TGGAATGGTG	AAGAATTCAG
46141	ATCCCCAAGC	CCACTCTTTC	CGCCCCCAC	CGCCCAACGC	ATTTCGTTCTG	AGGTGGAAAC
46201	CCCGTGCGGA	TCTTGCTGTG	GGTTTGCTCA	GCCTTCTCGG	CAAGCACTCA	GGGAAGAACT
46261	TCTGTTTGG	AGATGACTGG	GGAAAAAACT	GCACAGCTGA	CATTGGAAT	AAACCCGAGT
46321	TCCAGGTTCA	AGGAGCCCCA	GGCTTAGCTC	AGCTCAAGTG	AGGAACTACG	AGATTATTTT
46381	AAAAGCATTC	TAGTTGGGGG	AAGGGAGTGG	GCGGTTCCAA	AAGTCACTCC	GCAGAGCCGG
46441	GACAGCCGGG	GGAGGGGGCA	GGTCCTGGGG	CGAGGGACCC	CTATCTGCAG	TTCAGTGGTA
46501	GGCACTCCCT	CACGGGGTCT	GGACGCAGAA	AGTAGGGAGA	GGGGCTTGCG	GATTGGGTTG
46561	AGCAGGTCCCT	CCAAAGTTAG	CAAACCTCCA	AGCGCAAAGA	AAAAGCTAGT	TTCGATTTTTT
46621	CCACCCCCGC	CGCGCCCCCTA	GTTTCGCCGC	AGCCCTCGGA	CTCACGCAGC	AAGCGCCCCCT
46681	GCAGGACCGC	GGTCTGCAAA	AGCATCAGGA	GGAGAAGCGC	CGGCCTGGCT	CGCGGGCCCA
46741	TTTCCCCAGC	TCTGGCCGCA	CGTCCCCGTT	AAATCTCCGC	TTCTTTTGGG	GGGCGGGGAA
46801	ACGGGGATGG	CTCCAGAAAGT	CACCCTACAG	CTATTGCCTA	GGCTCAGGAG	ATGCCCAGTA
46861	AAACTTCCTG	GTGAAAAGCA	ACAGGTCTTT	CAGAACTTTA	GTTCTCTCTC	TCCTACAGCA
46921	GAAGGTACCT	GCTTGTAAG	CACTAGGTGA	TCCAGTGTCC	CCCTTGTTTT	TTAAATCCTG
46981	AAGGGGTGTT	GTTGATTGGG	GAAAGTAGCT	TCGCAATGTT	CTGATCTGAA	CTTTAGATAT
47041	TTAAATATTT	ATGATTTTCA	AAATTCAATC	ATACATTTAA	AAATTTTATC	TCAACCTTAG
47101	ACCAACTTAT	GTCTTATTTG	ACTTAGAAAT	ATAAAGCTTT	TTCATTTTGT	TTTTTGATTC
47161	AAATTAATTA	AGTCATAACA	TTAACCAATT	AGATCCTACT	GAAACACGTT	CCACGCCCTT
47221	CATAATTGAA	TTATCTGACA	AGTGTTCAC	AACTTTTACA	GTATTGGGAT	TATCTGGAGA
47281	ATGATTAAAC	ATATTGAGGC	CTGCTCCTAA	CCCCAGACAC	ACTGATTTAA	TGGGTAATTG
47341	TTAGGTAGTT	AGACATTAGC	AGTTGGGAGG	GGATGACAGA	AGAGAGCGGA	AAGGCTGTCA
47401	CTAAGACAGC	CACTGGCCCA	CCTAAATTCA	GGCCCAAGAC	TACCCTAATG	CCACCCTAAG
47461	GGATGGAGTT	TATGATAAAG	TCTGTGGCCA	AAATATCCTG	GAGAAAGAGA	AAGGAGGGTA
47521	CAGGTGGAAA	TTCCCTAAGG	TGGCACATGC	CCAACAACAC	AAAAGCCTGT	CTTCAAGTTC
47581	ACCCCAAGTT	CATCATGCCA	TCATTATAAT	AGAATTTACA	TACAGTTTTG	CCCCCCCATC
47641	CCTGGGAGGC	TTTTCTTAAC	AAATTATAGG	TAAGACCATG	CACAGTTTAA	TTTTAGATTG
47701	TATAGCTATA	AACTTCAATC	AAATAACATC	ATCCTGTCAC	TCAGATACAG	CCCAAACCTC
47761	AACTCCTCCC	CACAAACCCC	ATAAAGCAC	CTTGAGCTCT	GTAAAGAAGT	GCTGAGTTCA
47821	CTTCGCAGAA	ATAAGCCCCG	TGTCCTCAG	AGTGTATTAT	TGTGCTTCAA	TAACTTTGCT
47881	TTTAAGCTTG	CATTTTGGTG	TTAGTTTGTA	GTTCTTTGCT	CACTATCACA	AGAACTGAGA
47941	TTGCTGCTTC	AGAGCTCCGG	CTATAATAAT	CTCCTCGGTT	AAAGGATCCA	TCCCAATGCA
48001	TAATTTCCAG	TAACAGTATG	GGATGCCACC	TGGGCAATGG	GATTTTAAAA	GCTTTCTTTC
48061	TCCCTCAACG	AAGTTTGGGA	ATTATTGCCT	TAGACATTTT	AAACAATATT	AATAAATTTA
48121	ATACACCTGA	TTTGCTCCAA	ACCTTTACAT	ATCTAGCAAA	TTCAACAGGC	ATTATTTTTG
48181	TAAGCATGTA	TGCAAAATTT	GGCAATTCAA	GAAAATCAAA	CAGGATATCA	GGGCCTCGAC
48241	TGTAGGCAAA	CAGATACAAT	AACATTGGAA	ACATGTAGAA	TATTGATGAT	GGGCACATTG
48301	GGGCTGATAG	TACTATTCCT	TTTTTTCAAT	TTTTGGTAAG	ATATAATTAG	CATACCATAT
48361	AATTCATCTA	TGTAAAATGC	AAAAATTGGC	CCAGCTCAGT	GGCTCACGCT	TGTAATCCCA
48421	GCACTTTGGG	CGGCCGAGGA	AGGCAGATCA	CCTGAGATCA	GGGGTTCGAG	ACCAGCCTGG
48481	CCAACATGGT	GAAACCCCGT	CTTTACTAAA	AATACAAAAA	TTAGCCGGGC	GTGATAGCAG
48541	GCAACTGTAA	TCCCAGCTAC	ATTAGAGGCT	GAGGCAGGAG	AATCGCTTGA	ACCCGGGAGG

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48601	CGGAGGTTGC	AGTGAGCTAA	GATCGTGCCA	TCGCACTCCA	GCATGGGAGA	CAAGAGCAAG
48661	ACTTCATCTC	AAAAAAAAAA	AATTAGCTGG	GTGTGGTGGC	ATGCACCTGT	AATTCCAGCT
48721	ACTCGGGAAG	CTGAGACAGG	AGAATCGCTT	GAACCTGGGA	GGCGGAGGTT	GTGGTGAGCC
48781	GAGATCATGC	CATTGCACTC	CAGCCTGGGC	AACAAGAGCG	AAACTCCGTC	TCAAAAATAA
48841	AATAAATAAA	ATAAAATGCA	AAAATTAATG	GATTTTAGTA	TATTTACAGA	GATGTGCAAC
48901	CATTACCAAA	ATTTTACATT	TCTATCTCCC	CAAAAAGAAA	CCATGTTCCC	CTAATTCAGT
48961	ACCCTTAATT	CATCGCCTCC	CAGATTCCCTC	CATTCTCCTC	CTCCTCCCCT	CCCAGCCCTA
49021	GACAATCTTT	AATCTACTTT	CTTTCTATTT	GGAACATTTA	GTATACATAG	AGGCATATAA
49081	TATATTGCTT	TGCCGTGACT	GGCTTCCTTC	ATTTAGCATA	ATGTTTTTAT	GTATGTTTTT
49141	CATGGACCAA	TAATATCTAT	TATAAGGACA	TACCACAACA	TATTTTATTT	ATTTCATTCAT
49201	CAGCCGATGG	ACATTGGTTT	GTTTCTACTT	TATGGCTATT	GGGAATAGTG	CTGTTATAAA
49261	CATTTATGTA	CAAGTTTTTT	TGTAGACTTA	TGTTTTGATT	TCTTTTGGTT	ATATATCTAG
49321	AAGTGGGTTT	GCTGGGTCAT	ATGGTAACAC	TGTTTAACCT	TTTGAGGAAT	TGCCACATTC
49381	TTTTCCAAAG	TAAGCATTTT	ATCCTCCTAT	CAGCAGTGTA	TGAGAGTTCT	GATTTCTCTC
49441	CATCTTTGCC	TGGGTTTTTG	AATCAGGGCC	CCAGATAGAA	CAAAAATGTG	GTTATTCAGT
49501	TGTTCCACCA	TCACTTGTTG	AGAAGACTCT	TTTTTCATTG	AAGTGTTTTG	GCACCCCTAT
49561	CAAAAATCAA	TCTACCATAA	ATGTGAGAGT	TTATTTCTGG	AGTCTCAATT	TTATCCCAT
49621	ATGCTATAAT	CTATAATCCT	ATCTTTTTTT	TTTTTTGACA	GAGCCTCACT	CTATTGCCCA
49681	GGTTGGAGTG	CAGTGGCCCA	ATCCCGGCCA	CTGGCTCCTC	CTCCCAGGTT	CAAGCAATTC
49741	TCCTGCCTCA	GCCTCCCAAG	CAGCTGGGAT	TACAGGTACC	TGCCACCATG	CCTGGTTAAT
49801	TTTTGTATTT	TTAGTAGAGA	CGGGGTTTCA	CCATGTTGGT	CAGGCTGGTC	TGGAACCTCT
49861	GACCTCAGGT	GATCTGCCCA	CCTCAGCCTC	CCAAAGTGCT	GGGATTACAG	GCATGAGCCA
49921	CCACACCCAG	ACTATAATCC	TATCTTTATG	TCAGGACTAC	ACTGTCTTGA	TTACTATAGC
49981	TTTTTAGTAA	ATTGAATTCA	AGAAGTTTCT	CAACTTCAA	TTTGATCTTT	TTTTTGAAGA
50041	CTATATTAGC	TATTCTCAGT	CTGCTGAATT	TCCCTAGGAA	TTTTAGGATC	TATTATCAAT
50101	GTCTATTCTA	TTTTTGTATA	TGTTTAAATA	TTTTCATAAG	AAACTTTTTT	CATTTAAACT
50161	TTTTTTTTTT	AGAAAAATAG	TGAAAAATCAG	AATACTGGGG	GTCAGGCGCA	TTTAACAGGC
50221	AGAAGAAGAA	TAAAAACTTG	TCATATAAAC	AAAAAAGAAA	TGACCAATCA	CATTGTGGAA
50281	GCCATGGAGT	GGTTATAGGT	GCCAAAGGCT	GCAGAGAAAT	GGTGTGAGAT	ATACCTGAAA
50341	ATTGTCCATT	GTATTTGGCC	ATTAAGAGAC	TTAGAAGACT	TAAGCCATAG	ATTGCTCAGT
50401	GAGACCCCGA	GGGCAAATGG	TCTGAAGGTG	AATAGATCAT	TTACCTTTTA	AGAGACGAGG
50461	TAGGAAGCTA	TAAATCCAAG	ATTAAAAAGT	TGACTGAACT	GTTAAAGAAG	AAACTCTAAT
50521	CTTGAGCCAC	CCTATCCTTG	CTCCACCTTC	TGCTGCAAGC	AAACAGAAAT	GCTGAAATTC
50581	AACACTCACA	AAGGCTGGTA	AGCTGGAAAT	GACAAAAATT	ACTCCTGGGA	AAGTCAGATT
50641	TAGAATTAGG	CCATATTTGT	TGGGGTTTCA	ATTTTCATGT	ACACTTGGGA	AAGGGTTTAG
50701	CTTATAGGCA	CATGCATGAA	GGGAACTGGT	ATAGGGCTGT	GTTCATAAGG	TCAAGAGTTG
50761	AAGGCCAGGC	ATGGAGGCTC	TTGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCAGGAG
50821	GATGGCTTGA	GCCCAGGAAT	TCAAGACCAG	CCTGGGAAAC	ATAGGGAGAT	GCTGTCTTCA
50881	CAAAACAATT	AAAAAATAAA	ATTAGTCAGG	TGTGGTGGCA	CACACTTGTT	GTCCCAGCCA
50941	CTCAGGAGGT	TGGGAAGATC	ACCTAAGCCT	GGGACATTGA	GGCTGTAGTC	AGCCATGATA
51001	GTGCTACTGC	ACACCAGTCT	AGGTGACAGA	ATGAGACCCT	GTCTCCAAAA	AAAGAGCTGT
51061	ATCCACATCC	CAGGAAAGTG	GTTGAAGATC	TACTTTTCTC	TGTAAACCTA	ATAAAGAATA
51121	GAGTGACAAA	TGTGTGTTGT	GGAAAGAAAT	GGGGTGAGAG	CTACGTAGAT	GCAAAACAAT
51181	ACATCCCCAC	ATACCACTTG	TTAATCATCC	TTTTCCACCC	ACTTATGGGA	TGAATTGCAT
51241	CTCCCCAAAA	GATACTCTGT	CCTAACCTTC	AGTACCTGTG	AACCTGACCT	TATCTGGAAT
51301	ACGGTGAGTT	CACTGGTTAA	GAAGAGATTA	TAGTGGAATA	GGGTGAGTCC	TCCAACCAAT
51361	GACTGGGGTC	CTCACAGACA	CAGAGGGATG	ATGGCCAGGT	AGAGATGGAG	GCAGAGATTG
51421	GAGTTATGCT	GCCACAAACC	AAACACAGGA	AGCTGCTAGA	AGTGGAACA	GGCAAGAAAG
51481	AATCCTTCCC	CAGAGGCTAC	AGAGGGATCT	TGGCCCTGAT	AATACCTTGA	TCTCAACTGG
51541	CCTACGTAAC	TGTGAGAGAA	TAAATTTCTT	TTGTTCTAAG	CCACCCAGTT	GATAGTACTT
51601	TGTTACGGCA	GCCCTAAGGA	ACTTGATATA	CATTTCTTTT	ACTGTCATAG	AAGTTTTGAA
51661	TCCTTTAAGT	AGGTCTGTAC	CCTTCCTCCC	AGTGTCAACG	CATGGAATTC	CTCTCCTTGT
51721	GCCTTTAAAA	GTGAAAGGTG	TTTGAAGTGG	TAATGAAAGA	AATCTCAGCA	TGAGGCCAGA
51781	TGCTGTACCT	CACACCTGTA	ATCTCAGCAC	TTGGGGAGGA	TGAGGCGGGC	AGATCACTTG

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51841 AGGTCAGGAG TTCTAGACTA CTCTGGCCAA CATGGTGAAA CCCCATCTCT ACTAAAAACA
51901 AAAAAATGTTA TCCTAGCCGG GCATGGTGCC TGTAGTCCCA GCTACTCAGG AGGCTGAGGC
51961 AGGAGAATTG CTTGAACCCG GGAGGTGGAG GTTGCAGTGA ACTGAGATCA CGCCACTGCA
52021 CTCTAGCCTT GGTGAGAGAG CAAGACTTGG TCTTAAAAAA GAGAAAAGAA AAATGAAATT
52081 TCAGCATTAT AGAATAAAAA TGTTTCCCCT TCCCCC AAA CTTTAAAAAA GCAGAAGTCT
52141 GCATCATAAA ATGGTCTTTG CCAATGTTAT TTTTATTATA ACAAAGGAAT CTTGCAAGGC
52201 TACCAGATCT CAGCAATTGT CACTATGTTT TGTAAAAATC ACTTCCTAAA ATGTCTGAAT
52261 TGA CTGCTTG TCTCATTTAT TTGTTTCTCG TGTCACTG CAATGGATAT CTGTCTTGTT
52321 AGTATAAATA TTTGTGCATT TTGTTGTTGT TAAAACAGCT TTTTGGCCCT GTCTTCTTCC
52381 ACCTATGAGG TAATATAAAA CTCATGTTTA ACACCTATTT TTGTAGGAGG ACAAGCTACA
52441 GACAAAACCC CTCAGACACT GAGTTAAAGA AGGAAGGGCT TTATTCAGCT GGGAGCTTTG
52501 GCAAGACTCA CATCTCCAAA AACCGAGCTC CCTGAGTGAG CAATTCCTGT CCCTTTTAAG
52561 GGCTTGCAAC TCTAAGGGGG TCTGTGTGAG AGGGTCATGA TCGACTGAGC AAGTGGGGGT
52621 ATGTGACTGG CAGCTGCATG CACCAGTAAT CAGAACAGAA CAGGGATTTT CACAGTGTTC
52681 TTCCATACAA TGTCTGGAAT CTATAGATAA CATAACCGGT TAGGTCGGGG GTCAATCTTT
52741 AACCAGACCC AGGGTGCAAC ACCAGGCTGT CTGCCTGTGG ATTTCAATTC TGCCTTTTAG
52801 CTTTTACTTT TTCTTTCTTT GGAGGCAAAA ATTGGGCATA AGACAATATG AGGGGTGGTC
52861 GCCTCACTTA TTCACCCCTT TTGAGAATCT CACTCATTAG TGGGAGTTCT CACTTTTATT
52921 CTCCTACCT ATGTCTTCTT GAAAGACAGA TTGATAATGA TTCATATAGT AACTTGTGC
52981 TGAAGCATT TG GTGAGCTA AGGTAGTGAT GAAGCTTTTT ATCATTTGGA GAAGTACAGG
53041 TAGCAAAACAA GGAAGCAGTA AGCAGGTTTC TATTAATATT ATAACCTTA TTATAAGAGT
53101 TTTAAATCTT CTTAGCACTC GGAACCATTT TTCAAACATG GCCCCAGAAA CAAATCCATA
53161 CCACACCTAC ATGGGCACAT GTGCCACTTT TGTCAATTT CTAACCTATGT CTTCAACTAC
53221 TTGCCCTTAA TCATCTATGT GTAGACAGCA ATTAGTAAGG TTAAATTTCC TACAGACCCC
53281 TCCTTCAGTT GCTAGCAAGT AGTCGAGAGC CAATCCATTT TGATAGATAG CATTTTGCAT
53341 CTGAGTTTCT TGCCAGGCCA CAGTAGTCAG GGCTCTGCTG GTCTTATTAG TAATTATTTT
53401 TAAGACAGCT TGTAACCGTA TGATTAGTT GAGCATGTAA ATGGGGGTCC CATATCCCCA
53461 CAAGCCGTCT TGTGCCCAAG TAGCAGGCC ATAATATTGT ATGATTCTCT CAGGGGGCCA
53521 TTCATTATTT TTCCAATTT CTATAGCTAT GCTTTTTTTT TTTTTTTTTT TTTTTTTTTT
53581 TTGCGGGAAG CATATACAGG GAAGCCCAGG AGTTTGCTG TCTTTATGGG CAGTAGGAAG
53641 AAAGATGGTT TAATAGTGTC AATAACACAA CTACCTGCC ACTGGTCAGG TAATTTGGCA
53701 TAAGCTGTAT GCCACATAT CCAGTATAAT CCAGTGGGG CTGTCCAGTC CCGGTGGGAC
53761 TGTGGGTGGG TCCACACAGT TTGCAACTTT GGAATTTAC TAAATAGATT TTTCTTAGTG
53821 TGGTTTGAAC TCCACTAGGT GGCTGTTTT ATAGTACTAT TATACAGTTT TTGCCAAGG
53881 CAGCTGAGTC TTCCCACAGG AAGGGTGAAG TCCTTCCCCA CTTTGTCTAT ACAGTATTGT
53941 CTAATGATTG AGGCTTTTAG GACCCAGAAG TTATCAGGGT GAGTCTTTTG AGCTGGGAAT
54001 TTATCAGGAA CTGGGTCTGT AGGTACTAAT TCTCGTGCTT CCCATGGCCA TTGATCTCCC
54061 ATTACAGTTC CTCCACATAC ATACATAACA TGAAGTGACA TTGAGAGACT GGGCTACATG
54121 CTCAGCTAAT TGCAAAAACA AATTTCTTGT TTTTCTGGA ATTTCTAGTA CTGGCACATT
54181 CAGTTCATCA TAAGAAGGTT TGAAATACTG GCTCAGGGGA GCATTTATAA ACTTCTCCTC
54241 AAACCACCAT ATTTACTCAA GGATCCAGTC CAGCCCCAAC TATTTCTAAG GTTACACGAT
54301 CCCCTTTTTT CCAGTGAGAA TCAAGGGGGT TGGTTATTAC TAGTCTAAG GGGTTACACT
54361 GACCACTGGT ACAGGAAGGG CCACTTTTCC CTTTCTGAAG GTGGACAGGA TTCTTTTAT
54421 TTTTAAACCA AGTTGCCTAA ATGACACAAG ACCAGTATCT ACATTTATTT CCACGCAGTC
54481 TTAATTCATG ACAAGCGTAC TTATTTTCTG CCATATAGCC TCTTTCCTAA TGAACAGAAC
54541 CACATCCTAT TTCTAACTTA TTACTATTAA TGACAGCACA GGCATCAAAT TTCAAGGTGA
54601 CTTGTTTGGG CATTCTTTT TCTTCTGTTT TGGCTAACAC TTTACTCGTA TCGTTTATGA
54661 ACCCCCACCA GTCCTCAGTC CTCAATCTTA TTTCAAAAAC TGTGGTCGTG GGAGGCTCAG
54721 ATGGGTCATA ACACACATCA GGTGGTGCAT TTCTTGGGCT ACCTGCCTTG TATAGAATAG
54781 CATTATACAA ACAAGTTATT TTTAGAGTCT TTGTACACTT ATAATAACCA TAAAATAATA
54841 AGACTGTAGC AACTTTTTGT CCTACCTCAG TGACTTGATG TATACACTGG GAACAGCCCT
54901 CAGTCTGAGG AAGGTTAGTT GAAGTCTTTA CTGTGCAAGT CCAAATTTTA AGGAAAATGA
54961 GTCCCTTGAT GAGTTTTCTC ATGTTTCGGC CATGCATGGA CCAGTCAGCT TCCGGGTGTG
55021 ACTGGAGCAG GGCTTGTTGT CTTCTTCAGT CACTTTCAG GCGTTGGCGA AGCTGCCACG

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55081	TACAGCTCAC	AGTCTACTGA	TGTTCAAGGA	TGGTCTTGGA	AGTTGGGCCC	ACTAGAATTA
55141	ACTGAGTCCA	ATACCTCTAC	TCAGTCACTT	TCAACTGGGC	TTTCTGATAC	CAGGAGCAAG
55201	GTGGCAGGTT	TTAGGGTGTT	GCAAATTTCA	ATGGTTATGC	AGGGATTTTC	ACATAGCAAA
55261	CTTTGGTACT	TGGTTAATCT	AGCATTTGTT	AGCCAATGAT	GTATTTATTA	AAGTCACCAC
55321	AGCATGGAGG	GCCTTTAAGT	TTAGGTTTTG	TCCAAGAGTT	AGCTTATCTG	CCTCTTGTC
55381	TAGCAGGGCT	GTTGCTGCCA	AGGCTCTTAA	GCATGGAGGC	CAACCCCTAG	AAACTCCATC
55441	TAGTTGTTTG	GAGGCCCAGC	CTCGGCCAGG	GCCCCACAGT	CTGGGTCAAA	ACTCCAACCG
55501	CCATTTTTTTC	TCTTCTGAC	ACATAGAGTG	TAAAGGGTTT	TGTCAGGTCA	GGTAGCCCCA
55561	GGGCTGGGGC	CGACATGAGT	TTTTCTTTTA	ACTCATGAAA	AACTCATTGC	TGTTGGTTGT
55621	AATAGATGTA	GTTTATCCAA	TCTACATTTT	TATTAAGTGT	CACCCACCAA	AATATTGACT
55681	CAAATCCTGC	AGCTATTTGA	TTTTGGGATT	TAAATTGATC	TGCTATTCCC	TGTGGGACTC
55741	CAATTGCATC	TAAATAGATG	TGAGAGTTGA	AAGACACATA	AGGGTCTTCT	CTTGCTTTAC
55801	GATGTCTTAT	TTTTCCTCCC	TCTGGTTGAT	GAAATGCTAG	GGTGAAAGGG	ATAGCCAAC
55861	GGACTAAAGT	ACAAGTGCCG	CTCCAGTTAT	TTGGCAGAGT	GCCCAGTAAA	GGTCCACCAC
55921	AATACCACCA	CACATCCGCT	TGGGGATGAA	CAAAGGCTGA	CTGATTGAGA	AGCTCCTGAA
55981	AATTCTTAAG	CTCACTGCAT	CCCTTCAGGT	CTCCAAGGAA	TGCTAAGTTT	CCTCCCTGTC
56041	ATGAGAGACA	AGAAAGTGAAC	TTAGTTTTGG	GAGATGGAAG	CTGGATGGCC	CTCAGGGGTT
56101	GACCTGCAGG	GTGCTGGACT	TTGGGATATA	GCAGAGAGAG	CTTGGCACGA	CTTATTACTC
56161	CAGGCTGTAG	CATCCTGGAA	AACAGTTACC	ATGCAGCCCA	TGCTGGTCA	ACAGGAGGAC
56221	CACCTTAGTG	GAAAGGGGAT	AATCTGGCCC	TCTGGCCTGC	CATGTGCACA	AGCATAACAA
56281	TTGGTTTTGT	TTAATGTGTG	GACAGAATAT	TTGATCCATT	CCAAGTGGGC	ATTTGCATCT
56341	TGGTATCCTG	CTTAATTATC	AAAGTTTGTT	TTAAGTCTTT	AACTTCTATG	ACCCTCTAGT
56401	AAAATGAATG	TATGATTTTA	GGAAATTACA	AAAACCGGTT	GGGGCAGTCC	ATCCTCGCTC
56461	TTTAGTGGTC	CACACAACAT	TCGACCAACT	ATGGCATAAA	AGCTCTACAT	CAGGGGGCAA
56521	GACTCCTCGT	TGACACTGGG	GTCTTTATTG	AAATCTCTCT	GGATTAAATG	GTCTCAGTTT
56581	ACTAAGGCTC	AGTCTGAGGA	GAGTCAGGAG	GGACAGAGGT	ACTTTTCTGA	AGTACAGAGA
56641	TGTCTTCGAC	TTGGCAAGTC	CCCACAGGGT	ATAACAAGGC	AAGCATTAAA	TTCAATAGTT
56701	TGAGGCAAAA	TTGACTTGGT	TATGTTAATA	ACTAGATGGT	CAGAAATAGA	GTGAGGGAAG
56761	AAGAAAGAGT	AATAGAATAG	ATGAAGGAGT	TAAATTTTTT	TTAGCTTTAG	TTTGGTAGGG
56821	TTTTCCCCTG	GGACTATGGC	CCATGACTCT	GGAGGGGGTG	GCACTTTCTT	GACTCGGGTG
56881	TGATGAGTCC	ATCCCTTTTT	CACCGTATGA	ACAACAGTCT	CGGTGGTTAG	CAGCACAAGG
56941	TAGGGTCCTT	CCTAGGCTGG	CTCAAGTTTT	CCTTCTTTCC	ACCCTTTGAT	GAGAACATGA
57001	TCTTCAGGCT	GGTGCTGGTT	TACAGAAAAT	TCTAGGGGTG	GTACATGTGC	TAAAAGACTT
57061	TTAGTTTTGA	GGGAAAAGGAA	AGTGGAAGAT	AAACCAAGTA	TATAACTTTT	AAGAAGTTGA
57121	CCTTTTGTTT	TAAATGTGGG	GACATCAGCA	GTGGACTTTA	TAGTCCCTGG	TGCCTTCTTA
57181	CTGAGAAATT	TCCTTTAGCA	CCTATTTTTA	TTAGTTTTTA	GACCAAAGAA	AGTCAAATGC
57241	CATTTTATAT	TTGACAACGC	TTCTTGATAG	TTTATACCAG	ATAAGCTAGA	TTTCACCTTT
57301	ATATTGGTGT	GTTATTAATG	TTAACTTAG	TTTTAATAAA	ACTCTGTAGA	CATATTTATT
57361	TGATTTTTAA	TGTCTGACCA	TAAGGTAAGA	TTTTTATAGA	CTTTTCTTTA	ACCTTTTATA
57421	ATTTTTGTTA	AAGAACAGGT	TAGTGCTTTA	AGAAAAACCC	GTTGTGTTT	TATTTTAAATG
57481	TTCAAGTTCAC	AGAAAAACTG	TATGATACCC	CTTAACTTTA	GCCAATATGT	TTAGACACAG
57541	AATTTTCTTT	ACAATTAAGG	TTTCAAACT	TGCTTAAACC	TTCAAAAACAA	TTTTTGTAAC
57601	CTTTTAATGT	AGGTAAAAAT	CCACATTCTT	ATGCATCCTC	ATAATCCTTT	TACCAAAGGT
57661	ATATTTTACT	TTCCCTTACAT	ACCTTGACAC	TAAACTGTTT	ATTCAATAGT	TTTACATTTA
57721	GAAGGAGGCC	TAATTACTTT	TAAATTATAC	AACATTTCTT	GCATAAATTT	ATTTTTCTAA
57781	CACACATTTT	TTTCATGACT	TTACAGACA	ATTCTTCGAC	ATGCCTCAAC	TTTCTGACTT
57841	ATTGCAAACA	TCCCTTTCTT	TAAACAACCTA	GTAAATTTAT	CTCAGGACAA	GGATTTTCCA
57901	TACAACATTC	TTTTTTATAT	AAATCTGCC	TCCTCTTTAT	TTCTTTTTTT	TTTTTCCGAG
57961	GATGATAACC	ATTCTTTTCC	AAAGCGAACT	TCTTTTATGT	CTGTGGACTA	GACTGTCTAA
58021	GGCCACAAGA	TTAGAAGTTA	CTATAATACA	TGTTACACTG	TTAACTTTTA	GCAAACTTTA
58081	CTTTTGTTGA	AAACCTTGTA	AGTTTGGGAT	TTCAATTATC	CTTTGCTATT	AATAAGACCT
58141	TATTTAGTCC	AAATTAACCT	AGAATTGGTA	TAGATGGCTT	TTTTTTTTTT	TTTAATTACC
58201	TGGGAGGAAC	CATCTATCCT	CCTGTCTCTGA	AGGGAGTTCC	TCCTAGGTCT	GGTCAGAGCT
58261	TTGTATGGTA	ATTAAGATTT	AGATCCCCTG	TTAGGAAACC	TGCCGGGTTA	AGAGAATTTT

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58321	CAGTGGTTAA	TGTTAAATCA	TCTTCTTTTT	TCTTTTTTCC	TTAGGATACT	TCTGAACCGG
58381	TGAGGTGTGC	TCACAATGAG	GTTTCCTGTA	AAAGTTATTT	TTTTACTTTC	TTCTGTTAGC
58441	AAAGCAGTTG	CCGCTACAGA	TTGAATGCAT	TTGGGCCATC	CGCGGGTTAC	TGGGTAAAGG
58501	ATTTTTGATA	GGAAGGCCTT	AATGCTTTTG	GAATATGCCC	TGACAACAAA	GTGCCAGTTC
58561	CTTCCCGGTG	TTCAGCCACT	GCGTTGATCC	TCCACGAGGG	CCTGCCACGT	GCTGCTCTGG
58621	TGAGGCGTTC	CACCGGGGCA	ATTGCCTACC	TGGGAGCGCT	CTCCAGATCT	GTGTCGCTCA
58681	AACTGGCTGG	AGTTCCCCGT	AGGGATGCTC	CACAGGGCAG	GCCTAAGTCG	CCTAAGGGGC
58741	TGCCTTGACC	GTCCGTTAAT	CACCTCTGTC	TCCAAAAACC	AGCTCCCTGA	GTGAGCAATT
58801	CCTGTCCCTT	TTAAGGGCTT	ACAACTCTAA	GGGGGTCTGC	ATGAGAGGGT	CGTGATTGAT
58861	TGAGCAAGCA	GGGGGTACGT	GACTGGGGCT	GCATGCATCA	GTAATCAGAA	CAGAACAGAA
58921	CAGCACAGGG	ATTTTCACAA	TGCTTTTCCA	TACAATGTCT	GGAATCTATA	GATAACATAA
58981	CCTGTTAGGT	CAAAGGTCGA	TCTTTAACCA	GACCCAGGGT	GCGGTGCCGG	GCTGTTTGCC
59041	TGTGGATTTC	ATTTCTCCCT	TTTAATTTTT	ACTTTTTCTT	TCTTTGGAGG	CAGAAATTGG
59101	GCATAAGACA	ATATGAGGGG	TGGTCTCCTC	CCTTAATTTA	AACAAAATTT	TCAAAGTCCT
59161	ACCCCAAGTA	AATTGGCAAA	TATTAATAAA	GTTATGGCAT	AGAAAATAAA	AATGATTGTA
59221	AAAGGCGTAA	AGATATTTCT	GTGGGGAAAA	CATTTGTTCA	TTAGTTATCA	GTAAAAATTC
59281	TGTGAAAAAT	AACCACTAGA	GACCCTAAAG	TACCCAGGGG	CTAATAATAA	GAAGGGAGGA
59341	ACACCCTCTC	AGTCCCCACC	GTTACCTCCC	CAGAAGGGAA	GAGGAAGAGG	GTGACTCCAG
59401	GAGAGCTGTG	GTCTCCCCTC	CCCATATGTC	CACATATACC	TGACCTCCCC	TCCCCAAAAT
59461	ATATACCCAA	TATCTCTCCC	ATATATACAT	ATTTATCTGA	CCTCTCCACA	TATGTATACC
59521	TAAACTTTCT	CTATATATCC	ACATATACCT	AACCCTCTCA	CACACATATA	GCTGACCTCC
59581	AGTGGAGGAA	AATGGGGAAG	AGAGAAGAA	TTATCAAAGG	ATAAATCTAG	GTCACTACTCA
59641	GAAATGTGAA	AAACAAAAAC	CACACACAGA	AAAAAAAAAC	ACACACAAAA	AAGAAATTGA
59701	TAAATTTGTT	TGTGTCAAAA	TTAAGAATTC	CGTTTCAATG	AAGGATCCCA	TGGATAAAGT
59761	TAAGACACTG	CTGTAAGGAT	GGTAGAGAAT	TAAATGTCTG	AATCAGACGA	AAGGATGAGT
59821	AATTAGAATG	CACAAGGCCA	AGAAGAACAA	AACAGAAACT	CCACATAAAA	AATGTATGAG
59881	GCCGGGCGCG	GTGGCTCATG	CCAGTAATCC	CAGCGCTTGG	GGAGGCCAGG	GCGGGCCGAT
59941	CAGGAGTTTG	AGACCAGGCT	GGCCAACATT	GTGAAACCCC	ATCTCTACAA	AAAATACAAA
60001	AAATTAGCCG	GGCGTGGTGG	TGGGTGCCTA	TAATCCCAGC	TACTTGGGAG	GCTGAGGCAG
60061	GAGAATCACT	TAAACTCAGG	AGGCAGAGGT	TGCAGTGAGC	TGAGATCACA	CCATTGCACT
60121	CCAGCCTGGG	TGACAGTGTG	AGACTCTGTC	TCAAAAAAAA	AAAAAAATTA	TATATATATA
60181	TATATATATA	TATATATATA	TATATATATA	TGAAATAAAT	GAACAAGAAA	TTTAGATACA
60241	GGAAAATCCA	AAGCACTTGG	TAATGAAAGA	AAGGTAAAGT	GATGTGTCCT	TTTGCATTTA
60301	AAAGAGAGCA	TTAACAAATT	AGAGAGCTGA	ATAATGCTCA	GTATTGGTGT	GGATATGGAG
60361	ACTCAGGAAT	CCTCATACAC	TGCTGATGGG	AGTGCCCACT	CCCTGGGAAT	ATTTTCCAAA
60421	TATCATCTCA	AACATATCCC	ATAAAGGTGA	CAGGAAAGTG	TGGGCTGACT	GATATCCTTC
60481	ACTGAGAGAG	GTGGAGGTAA	AATGAAGTCA	CTGCACAATA	TAGAGTTGGA	AGCAATGGAT
60541	TAGATGTCCA	CATAGTTACG	TGGAAGAATC	CGTAAGATAC	ACACACACAC	ACACACACAC
60601	ACCTTTGTGT	ATATTGTTCC	TGGCAGGTAG	GCATGGAGGT	TTAGAGGCTT	TCTACATCAC
60661	ACCTACTGCA	CACAGTAAAT	GGCCAGGCTG	AGCACTGACT	TCCATGAAGG	GAGATTGAAG
60721	GTAAGAGATT	GAAGATTGTT	CCCTGGTCTG	GGACCCTGCA	ACTGAATATG	CAGAAAAAAG
60781	TACACCCCGC	CACCCCGCTT	CCCATCTTTC	CTACCTGATT	AGAATAGCTT	TTTCAGAAAA
60841	CGTTGGCCAG	GGGTTGTGGC	TCACACCTGT	AATCCCAGCA	CTTTGGGAGG	CTGAGGCGGG
60901	CAGATCATCT	GAGGTCAGAA	GTTCCAGACC	AGCCTGGCCA	ACATGGCGAA	ACCCCATCTC
60961	TACTAAAAAT	ATAAAAAATT	AGCAGGGCAT	GGTGGCACAC	ACCTGTCATC	CCAGCTACTC
61021	GGGAGCCTGA	GGCAGGAGAC	TCACTTGAAG	CACAGTGATG	GAGGTTGAAG	TTAGCTGAGA
61081	TCTTGCCACT	GCACTCCAGC	CTGGACAACA	GAGTGACACT	TTGTCTCAAC	AACAACAACA
61141	AAACCCACCA	AAACTTTAAA	TCTACCTATG	GCCAAATGCC	TGCTAAAATG	AGCACCCAAG
61201	AAGCAGTGTT	CAGGAAAGTC	AGATGAATAC	CCTAAAAATTA	GATGCAATGT	TGGCTGGTCA
61261	CAGTGGCTCA	GGCCCTGTAA	TCCCAATCCT	TCTTGGGAGG	CCGAGGCGAC	AGATCGCTTA
61321	AGCTCAGGAG	ATCGAGACCA	GTCTGGACAA	CATGGTGAGA	CCGTGTCTCT	ACAAAAACGT
61381	ACAAAAATGA	GCTGGGAGTG	GTGGCGCACA	CCTGTAGTCC	CAGCTACTCA	GGAAGCTGAG
61441	TGGGAGGAT	CTCTGAACC	CAGAAGGCGG	AGACTGCAGT	GAGCAGAGAT	CATGCCACTA
61501	CACCCAGGCC	TGGATGATAG	AGCCAGACCC	CCATCTCCAG	AAAAAAAAT	AAAGAGAGAG

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61561	AGAGATGCAA	TATTTAGGGT	TCAACAAGAC	TGAACTTCTG	ACTCCTTTCC	CTACCTCTCC
61621	AGCATGTTAG	ATTCTGGGTC	CTTCATCCTA	ACCCCTGTG	CATGCCATAG	CCACCCTGTG
61681	GTACCAACTT	TGGAAGCCTG	GATCTTCATC	CCCTCATGAT	AATGAGTGTC	CCATTCAGGT
61741	CTCCATGCTC	AGCTTGGCAA	GAGTATCTGT	CTTCTCCTCA	TGGGACGGTC	ACATTCACCC
61801	AGCACTGACA	GGTTCCATTC	CCACTAGGGT	GGCACCCCTAT	ATGGTCTGAG	TCCAGGCCTT
61861	CCTGGTCCCT	CAGTAATCTC	AGCATGGTAG	CACAATCGAA	AAGGGCTAGG	CACGGCAGCA
61921	CCATTTCCCA	CCAAGAGGTC	TGATGGCTCA	TCACATAGAC	TGAAGGAGAT	TCTGAAGAGC
61981	AGAGGTGGAA	TGAAGAATGA	ATCCTGGGCT	CTGCTCTTCC	TAGGCCTGTC	TTCTCTCTC
62041	CCGAGATGTT	AGCTAACTCA	TGAGAGCCAG	AAACCAACTG	CAGGCTGGCC	TCAGGCACTT
62101	AGGTAGTGCT	TCAGCCTCAG	CAGTCCACAT	TCTAGGAACC	CTCATAATAT	GGGTGAAGT
62161	ATGCATTCCC	ACAAAAATAA	AGTTGTTGAA	GTCCTAACCA	CCAGTACTGA	AATGGGAAAA
62221	GTTCCCTTGT	CCCCTCGCA	TGGCATGTGA	TAGGAGTGTG	GCTAATTTCT	TCAGTGCCTG
62281	GCTGCTCAAA	CCTCTAGGGG	AACAGTAAGA	CGGGCAGGTT	GTGGGTCTCC	AACCCCATGA
62341	CCCCACCACA	GTGTCTAGGG	TTGAATGTTT	ACAGCTCCTG	AAGCCACAGT	GGGTGTGTGT
62401	TACAGGGTGC	TCTTTTAGTT	TTGCCATTTA	TAGGCAGCTG	GTGTTAACCA	ACTCAATTAG
62461	ACCGTCTACC	TTGTCCCAAG	GACAGAAGAA	GGCTTTCTGT	ATCCCAGGTT	CTTGCTTTGG
62521	TGTACCGGAA	TAAATCAGAC	CACACCTGGG	CCTAGAGAAA	GAGTGCAAGG	TTTTATTAAAG
62581	TGGAGGTAGC	TCTCAGCAGT	TGGGCAAAGC	CAAAAGTGGA	TGGAGTGGGA	AAGTTTTCCC
62641	TTGGAGTCAG	CCACTCAGTG	GCCCAGGCTC	TCCTGCAACC	ACCCAGTCA	AATTCCGCCT
62701	CATTTTGCCA	GGCAAACGTT	TGTTGTGTGC	TCTTCTGCCA	GTGTGCTCCC	CTGGACGTCC
62761	AGCTATTTCG	GTCTTGTGGC	AGGCCAGGGG	AGGTCTTGGG	AAATGCAACA	TTTGGGCAGG
62821	AAAACAAAAA	TGCCTGTCCCT	CACCGTGGTC	CCTGGGCACA	GGCCTGGGGG	TGGAGCCCTA
62881	GCCGGGGACC	ACGCCCTTCC	CTTCCCCACT	TCCATATCAT	TTAAAGGGAC	CATGCCCTTC
62941	CCTTCCCAGC	ACTTTCCCCC	TCCTGTATCA	GGACCTGTGA	ATGTGGCCTT	ATTTGGAAAT
63001	AGGTGCTTTG	CACTTCATCA	GTTAAGATAA	GAGTGGGCTC	TAACCCAACA	TAAAGGGTGT
63061	CCTTATAAAA	AGGAGAAATG	TCATACACAG	AGACTGACAC	CTATAGAGAG	AAAATGTGGT
63121	GAGTAGACAC	AGGGAGAATC	ACCATTCAAG	TCAAGCAATG	AGTCTGGGGA	TACCAGAAGC
63181	TGGGAGAGAA	ACCTGGAACA	GATTATCCCT	CATTGCCTTC	AGAAGGAATC	AAACCTGATG
63241	ATACTTTGAT	TTCAGACTTC	CAGCTTCCAG	GACTGTGTGA	CGATAAATAT	CTGTTGTAA
63301	GCCAACAAGT	TTGAGGTACT	TTGTTACTGC	AGCCCCAGAA	AACTAATACA	GTAGGTACTA
63361	TGGACTGAAT	TGTGACTCCC	CGTCGCAAAA	TTCATATGTT	GAAACCCTAA	CCCCCAGTGT
63421	GATGGTACTT	GGAGCTGGGG	CGTTTGGGAA	GTCATTATAT	TTAGACAAAC	TCATCAGGAT
63481	GTGTCTCTCA	TGATGAAATT	CATGCCCTTA	TTAAAAGAGA	CAACAGGCCA	GGTGCAGTGG
63541	CTCATGCCTG	TAATCCCAGC	ACTTTGGGAG	GCTGAGGTGG	ATGGATCACC	TGAGGTTGGG
63601	AGTTTGAGAC	CAGCCTGGCC	AACATGGTAA	AACCCCATGT	CTACTAAAAA	TACAAAAATT
63661	GGCCAGGTGT	GGTGGTGCAC	GCTTGTACTC	CCAGCTACTT	GGGAGGCTGA	GGCAGGAGAA
63721	TCCCTTGAAC	CCAGGAGGTG	GAAGTTGCAG	TGAGATCACA	CCACTGTACT	CTAGCCTGGG
63781	TGATAGAGAC	TCCATCTCAA	AAAAAAAAAA	AAAAAAGAC	AATAGAGCCA	GGTGCTGCAG
63841	CTGATGCCTG	TAATTCCAAC	ACTATGAGAG	GCTGAAGCAG	GAGGCTCGCT	TTAGCCCAGG
63901	AGTTCAAGAC	CAGCTTGGAC	AAAAATAGTA	GACCCCCAAC	TTCTAAAAAT	TTAAAAAATG
63961	AACTGGGTGT	GGTGGTACAC	ATCTGAGGCT	CCAGCTACTC	TGGAGGCTGA	GGTGGGAGGA
64021	TTGCTTGAGC	CCAGGAGGAG	GCTGCAGTGA	GCCATTGCTG	TCCAGCCTGG	GCTACACGAG
64081	AACCTGTCTC	GGGAAAAGGA	GAAAACAGTG	AGACCTCTTT	TTCTCTCCTC	CTTCTCTCCA
64141	CTGCCTAAGC	CCTACAAGCA	CAAAAAGGAC	ACCACATGAG	CACATAGTGA	GAATGCTGCT
64201	GCCACCAACA	AGTCAGGAAG	AGAGCGTTCA	CCTAGAAACT	GAATTGGCCA	GCACCTGGAT
64261	CTTGGACTTC	TGAGCTTCCA	GAAGTGTGAG	AAAGTTATTT	TTTTTTTAGC	GACTAAGTCT
64321	ATAGTATTTT	ATTACAGCAG	CTCAAGGTAA	CTAACATAGT	AGAAGGGATG	AATTATGGAG
64381	ATCACAAGTC	CACGCCTCCA	GAAAAAGACT	TCCCTAAAAA	TTAGTCTGAG	CAAAATTCGA
64441	ATGATGAATT	ATTTTAAAGA	ACTTTTAAGG	GATCTGACAA	GTTTGCAAGA	GCTAGAGAAT
64501	GCTTTACAAC	GTGATAATAG	AATGCTCTGT	GATGACAGAA	ATCTTTCCAC	ACTGTTCAAA
64561	ACTAGCTACT	GGCCACTTGT	GACTATTGTG	CACTTGAAAT	GTGACTGGTG	TCTGAGGAGC
64621	AGAATGTTTA	ATTTTACTTA	ATTTTAATTC	ATTACAATAG	CTACATGTAG	CTAGGGGCTA
64681	CTGGATTGAA	CAGCACAGCT	CGAGTCTTTT	AGAGGGAGAC	AGGACTCACC	AAGGTGGATG
64741	CTGGTGGCCA	AGCAGCAATG	GCAGGTAGTA	CACACACAAG	AGGCAGATGA	TACAACACAT

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64801	CCTTCCCAAA	CCTGGAGATA	AGCTCACCCC	ACAATCCCGC	CGCTGAAATA	GAGTTGATGT
64861	TACCAATGTG	CATTTTTATG	TCCTTTTCCA	TACAGAAAGA	TCATTCAACA	AGTACTATGG
64921	TACTTAAAAA	ACAACATTCA	ATTCATTATT	ATGACAAAAT	TAAATTAATA	GCTCTTCCTT
64981	AAACTTTTAA	ATTCAATTTA	CAATGCTTAC	TATTGGCATT	TATTAATCTA	CCAATTTTTT
65041	CCCATAGAAC	CCATAGAACA	AATAATCTAC	CAAATTTTTA	ACATTCAATT	TTGGCAAGGC
65101	TTTTGCAATT	TGACGAACTT	TAAGAAGAAA	ACTTATAAAT	TGCAATTTTT	AAATCTGACA
65161	TACTGGACTT	TTAAAGTATC	CAATTGACTA	ATGAACAAAA	CTGCTCCAAA	TTTTTCAATT
65221	CTTAAAAATC	TTAAGACAAT	ACTTAATATG	GCAAATCTTA	ACTTCTTAAA	CTTTGTAAGA
65281	ATGCTAATCA	ACTTAGATTG	GTATAAAGTT	GAGTTAAAAA	TCACAGGATA	CATCATCTCA
65341	GCTATAAGTT	TTCATGAGTT	GAGTTTTTAC	AATCACTTGA	AATGCTTAGA	ATAGGAAATA
65401	CGTATAAATT	ATTTAACATA	AAATATTGTT	ACAAAACCTC	TGGAGTGTCA	GTTTCTCTGG
65461	CCAGACTTTA	TGCTGCAGCA	CCTTTGCCTG	AGTTCTTGTC	CTGCATCCAG	GAAGAATTAG
65521	GTACAGAGGC	AAGAGTCAAG	AAGATTAGTT	TTCCAATAGT	TCAGCTCACC	TAGTTAACTC
65581	CTGTTTCAAA	TCTTCAAAGT	TATCAGAAAC	CTGCAATTGA	GGGTTATAAT	CCATTCTTTG
65641	CAGAGTTTCA	AAACAAGACA	ACATTGTCT	ATGAATGTTA	AAATGTCCTA	GGGTAGTCAC
65701	AGTCAAAAC	ACAATTGACA	AAGAAATTTA	GTACCTCTCG	TGATTTACAA	TAGCCTAACA
65761	CAATAACTCT	AATTATAACT	GATGACACAA	ACTCAGATAT	CAGAACTCTA	GAAATCCCCT
65821	ATAATTTTGG	AACACATATT	CACAGTTTTT	ACTGAAATAT	GACCTGAAGA	TCAAATATCA
65881	CCTTATTTCA	ACAATCCTAT	ATAACTAAAC	GTGTCAAATG	ATCCTGTTTA	CCTCTCCTTT
65941	GGATACTCCA	GGGGCCCTCT	GTAGCATCCA	AAAGTTAGGG	GTTAGCAAAG	ACAATTTTGA
66001	AGCTGTAAAG	GCTCAAAACA	CTTAATGAAC	CTCTAGTCAT	ATCTGTTCTC	TACTCACTAA
66061	ATGCTAGTAG	CACCTCTCAG	TTGTGGCTAA	GCTGGGAGGA	TCTCTTGAGC	CTAGAAGTTT
66121	GGGGACGCAG	TGAGCTATGA	TTATGCCACT	GCACTCCAGC	CTGGGCAACA	ATGCAAAATC
66181	CTGTCTCAAA	AACAAAAACA	AAAAACAAAT	TGCCTATGCT	GTGGTTATCT	CACAATTAAT
66241	AAAAAGGAAA	AAAAAAGTAT	GCAGTCTTTG	TAGGTCCTTG	GGGTTTGTTG	GAACCTAGAA
66301	AACAATAACC	CAAAATAAAG	ACCGCAGAAG	CCAAAGTTTT	TCTCTGATCT	TCTCCTGCCC
66361	TCCTGTCTCT	GAGTCCCATT	CTCCCCGGAG	TCTAGCCATA	GAAATGAGAA	TTCTCTTTCC
66421	TCAAGTTAGG	TCATAGAAAT	CAAAACACCT	TTTCCCCAGA	GCCCAGCCAT	AAAACCTAAA
66481	AATATTACTC	TAACTTTCCC	TCTGTTTTTC	TGTGTAAAAA	CTGGCCATAA	AGAAATTATC
66541	TGAACCTACT	TATTTGATCA	TAGATCACCA	GACCGCATT	CAGAGAGGAT	CCAGAAGGAA
66601	GGAATGCTGC	ACAGAGAGGC	CAAGAAGAAT	CTAGACAGAC	AGGCCTTGCT	GGGTTTCCCT
66661	ACTCTGTTTA	TTAGCAATCC	TATTTCTACA	CGGCGGCCCA	TACTTTGTTG	AATCTAAAAA
66721	ATAAAAATGG	ACAATTTCCC	CTGTACATGT	TAATACACAT	TAATAAATTG	GATATAAATT
66781	GGATAATTTA	TTAATATACA	CATTAATAAA	TTGGATGCAG	CCGGGTGCAA	TGGCTCACGC
66841	CTGTAATCCC	AGCACTTTGG	GAGCTGAGGC	GGGCAGACCA	CGAGGTCAAG	ACCACCTTAG
66901	CCGAAATGGT	GAAACCCCGT	CTCTATTAAA	AATACAAAAG	TTAGCTGGGC	GTGGTGGCAC
66961	ATGCCCTGTG	TCCCAGCTAC	TGGGGAGGCT	GAGGCAGGAG	AATTGCTTGA	ACTCGGGAGG
67021	CGGAGGTTGC	AGTGAGCCGA	GATTGCGCCA	CTGCACTCCA	GCCTGGTGAC	AGAGTGAGAC
67081	TCCGTCTAAA	AATAATAATA	ATAATAATAA	TAATAATAAT	AATAATAATA	ATAAATTGGA
67141	TGCATTTTAT	CCTATTATAT	TTCTCTTGT	CGGTGGTTTT	CAGCGACTCT	TCAGAGGCCA
67201	AAGAGTAAGT	TTTCCCTTAG	CCCCTACAGG	TTCTTATGTT	TAATTTGTTA	CTCTCATTTA
67261	AGACATAATT	AAAGTGGCTT	CTCCATGAAG	ATTATTTCTG	CATCCATTAT	TTGGTAAGAT
67321	TGGCCGTTTT	CTCCTTTGAT	CTCTACTTCA	CACCTGACCA	CATAAAACAT	CATGCTCTGT
67381	TTTTTTGTTG	TTGTTGTTTG	GAGACGGAGT	CTTGCTCTGT	TGCCCAGGCT	GGAGTGCAGT
67441	GGTGTGATCT	CCGCTCACTG	CAAGCTCCGC	CTCCCGGATT	CACGCCATT	TCCTGCCTCA
67501	GCCTCCTGAG	CAGCTGGGAC	TACAGGCACC	CACCACCAAG	CCCGGCTAAT	TTTTGTATTT
67561	TTAGTAGATA	CGGGGTTTCA	CTTTGTAAAC	CAGGATGGTC	TCGATCTCCT	GACCTCGTGA
67621	TCGGCCCGCC	TCAGCCTCCC	AAAGTGCTGG	GATTACAGGA	GTGAGCCACT	GCGCCCGGCC
67681	CCGTTTTTTT	TTTTTTGGTT	TTTGCATGTC	TTCTCCCTTT	TACTGTAAAC	TATTTCCACT
67741	ACCAGCGTAG	TTATCATTTT	TACTGCTTAA	TAATTGTTTT	GGGGAAGTGA	ATGCATCAAC
67801	CCACATGAAT	TTCTTGTCTA	TTTGACAATT	TATTCTCTTT	AGGAATAGTA	TTAACTCCTA
67861	AGGTCTTGGG	AGCCAGTCTC	TGTACTTGGC	TGCTCCAGGG	TCCTACTTCA	GTTTCCCAGC
67921	TTCTCAGTAC	TGTCACGTGC	AATTGTGGGT	AATAATTATT	TTTGTCCACC	AAAAGACTCT
67981	GTATGTGAAT	GAGTTTTGAA	ATCTGCTGAG	TAATACAGTG	TCAACCCAGT	TAATGATTTG

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68041	CCGGGCGGCT	TGATCAGGGG	CTGTCCAACT	ACCGGCATTT	TGATTTGGAG	CGTCATCTAG
68101	TGTCTGAAAG	CACAAACAAC	ATCCTACATT	GTAAATGCCT	TTGGCTACAG	AGATTGAAAC
68161	CAAAGCAAAC	CTATGTTTTG	AATTGTTATT	CTTCAGCAGT	TCTGCTAGCC	TTGAAAAATC
68221	TAAAAGTTAA	AAAAAAGCTT	TATATTTTCAT	TTTCTGCCTA	AACTCTTTAA	AATTGCTAGT
68281	TGACAATTAG	ATATTTTCAA	TTTAATGAAA	TTTTTTTTTTA	GTTACACAGAT	TAATACACAA
68341	TGGGGGAGGG	TTCTTATTCT	GTTGGACTTT	TACATAACCT	CCACTTTAGT	GCAGTCTGCT
68401	TTATGGGGTC	TTGTTTGAGG	TGTGTGTGTG	TTTAAGGGAA	TGTGGTTTAC	AATCAAAATA
68461	TTGGGTTGCT	CTTAGGCACA	TTGTAAAGTC	ACACACCTGT	ATTCTTATTG	ATACATAATG
68521	ATTAATAACA	TTATTATTAC	AGCCTGATCA	CCATCATTAT	TGATATATCT	AAATAATGAA
68581	TTTTATAATT	TTGCTTCCTG	TCAGGCAAGA	GCCAATTTCA	GTGCTACCAT	GTTTGTATAG
68641	CAGTATTTAT	GTCTGTCATC	CTCAGTCATT	TTACTTCACT	TGTTCTTAGC	CAAACGGCCG
68701	AGAAGCGATG	GTCATTTTAC	TTCAAAAATG	AAAAGAATTA	ATATTTTTAC	GTTTCCCTTA
68761	AAGACCCTAT	GTTTAACCTC	CACCTCCGGG	TAAAATGGTC	TAGTCCCTCC	TTTTCATATC
68821	ATCTCTGATA	TCTTTTGCAC	AGCCACTATT	ACCTACCGTT	TTCTAGATCC	CTATTCTTCA
68881	AACACCACCA	TGAAGGTAGA	GCCTGTCTGA	ATTATTTTCT	TGTCCCGTGA	ACTCAGTACA
68941	TTGTTAGGCT	TCTTGAAGAT	GTTGATCAGT	TGTTTGTGGA	GTGAATGAAT	CAGTAGCATC
69001	GATTTTTTCTA	GACCACTGAG	ACAAGTGTCT	AAGACACTTG	TTCTTTCCCA	TGTTCTTGCC
69061	TGCCTGTGCA	ATCCATGCAG	TCTCATGGCT	TCCCAGTGCC	TCAGAATTAT	CCCCTGTCAA
69121	ACAGGCATTA	TAATTTCTGT	CCACTGAAAA	GGACAAAAAA	CTAAGTGTAT	AGCTAGAAAGT
69181	TAAAAATTAC	CGGCCAGGTA	CTGTGGCTCA	CTCCTGTTAT	TCCAACATTT	TGGGAGGCTG
69241	AGGCGGGCAG	ATCACCTGAG	GTCAGGAATT	CGATACCAGG	CTGGCTAACA	TGGCGACCCC
69301	GTCTCTATCA	AAAATGTAAA	AGTTAGCCAG	GTGTGGTGGC	TCGCACCTGT	GGCCCCAGCT
69361	ACTCAGGAGG	CTGAGGCAGG	AGGATCGTTT	GAGCCCTGGA	GGTTGAGGCT	GCAGAAAAAT
69421	AGGAATATAC	TCTCTTTCAA	GAGTTCGTGG	TTTTGACTGC	CACCTAGCGT	ACATCAGAAA
69481	AACCGCATGA	CATAGGAAAT	GCCTGTGACA	GAGGGGTAAG	GTGAGAGAGG	TTGATGAAGA
69541	ATGTATTGAA	GGAGTGAAAA	CCCTTCCACT	CCTCTACTTA	CTAAATATAT	TAGTTAAGTA
69601	GTTGGGGCAT	ATTTTAATTC	ATGCATTTTG	TAGATAGAAA	AACAAAAGTT	TTATTCTGTT
69661	TGATTTAGTT	GATACTTTAA	TATGTGTGTG	TTTAGGATGC	ATGATTTATA	ATCAGTCTGC
69721	AGCACTTCTT	GGAGAAGTCT	GAATTCTCAT	TCTCCATTTC	CTTATTGGCA	ACGTGAGAAT
69781	GATTACAATG	GTGGTTGTCT	CATAGAATGC	AGGGAGTCAG	AATGAAAATA	GTCCATATAA
69841	TGCCTGGTGC	AGAGGAAGGG	TTCAGTTAAC	TGTCTGTATT	AATATTACTG	ATAACAGTCA
69901	TGACAAACAA	AAGCTTAACA	ACAACACCAC	CAACAACAGT	TGCAGAATTG	AGCCACCAAT
69961	TTGCACACAA	GATTGTAGGT	AGGATGTTTT	AGAAAAGTTA	TTATTTAATA	TATGTATATA
70021	TTTTTGTAAT	TAAAATATGT	CAGAGGTTGT	TCTAAGAACT	ATTTAAATGT	TAACCTCTTA
70081	ATCCTCATAA	TGACCCATGA	AACAGGTAGG	CTTATTATTG	TCTCTTTACA	TGTGAGAACA
70141	CTGAGACACG	AAAAGGTTTA	TTAACTCACC	CAAAGTCACA	CAGCTGGTAA	AACGGCAAAA
70201	TTGAATTTGA	ACTCAGACAT	TCCAGGTTCC	AAGACAGTCT	AATTATTCTT	TTGACTAATA
70261	TACTAAGCTG	CCTCTGTATT	TTTCCTTGAT	TACTTTGTAA	AAGTATGAGG	AAAATATAAG
70321	TGCTTCAAGT	AACCATGAAA	AATATAAACA	ATCTATGTAT	CAACTGAAGC	ATAATTACAA
70381	ATCCTTTGAT	AAGCAAACAT	AATAAAAATT	TGATATCAAT	CAAACTTTTC	ATGTAATGTA
70441	AGCAGGTTGA	GATGAATTCT	ATAGTAAAAA	AGTGCAGAGT	GCTGGAATAC	CATGCTCCTA
70501	ATATATTGGC	TAGGCACACC	TGCCTGCTAT	CAAAGGTATG	CACACACCTT	GGATACAGAA
70561	AGTTGGGACT	GGGTAGTTAT	GTGAGTGTCA	TCAGAATTCT	TTCCCCTTGG	GGAAAGAATT
70621	GTCCATCATA	AGCTTGGATG	ATGGACAAGG	AGTGAGCTCC	CAGAACAGTG	ATGTGGGGAT
70681	ACATCCTCAC	ATCACAGTGA	GAATGAGTGT	TCTAGACTGT	TTACACACCT	ACCACTCCTA
70741	AATGCACACA	TATAATTGCT	TGCACACACA	CACATACACA	CTCATCTCTT	CTCTGGTGGT
70801	CCAGCTCTAT	CTCTTATCAT	TAGGCTTCTT	GGGGCTAGTA	CCTAGGGCCT	GTATCCTTTC
70861	AGAGGCAGCT	AAGGGAAGCA	CACATAATTA	GAAAGAATGA	ACCAGCTTGT	TGGATTTGGT
70921	CTCTTCGCAT	CCAGCCCTCC	AAGTTAAGGA	GAGTACCATC	TTTCTTAGGG	TCACCAAAGG
70981	AAAAAAGGAA	AAAAAAGGAA	AACAGAAGGA	TATCATACAG	CAAGGATCTA	ATGCAAATAT
71041	GCCTCAAATG	AGAGGCTACT	GTGTGCTGAT	CCCAATCCCA	GGAAGTGTAT	GCACATTATC
71101	TAATTTAATC	CTCACTGTAT	TTCTGGGAGT	ATTATTCCCA	TTTACAGAG	AAGGAAGTTG
71161	GCAGGGTAAC	CAAGCTCATG	CAATGGAGAA	CTGGGATTAA	ATATAAAGCT	TCCTTGCTCC
71221	AGAAGTGCTG	TCTTTCTGCT	CTTCCACACT	ACCAGCTCAG	CTGTGCTCTC	TACATGCAGG

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71281 CAGTTTTTACA AGTTTCAGAT TAGCCTGGGA CTTCCAGGGT TTTGAATGGG TTAGGGAATG
71341 GGGAACTTTT GGGTTTACTT TCCATTTTTT CTTCATACAT ATGTAATATA TAACATAAAT
71401 CTATGGTATA TATGATAAAT ATATGGCTAC ATATGAACTA TATAATCACA TATATGCATT
71461 ATAAATAAAT ATTAATTTTA TAATATTTTA AAGGTTATCA AATAAATATT AATATAAATA
71521 ATTAAATAAT TAATACTCAG CTTTGTTTTC CAAAGTGATA AATGCCTATA TTTAGCAAAA
71581 TATTTTTTGG AGGCCTGATA GTTTTTTAGGA GTGTAAAGAA GTCCTGATAT CTAAATGTTT
71641 AAGAACCCTT ATTTTAGGCT GTTGTCTTCT GTCTTATTTT CCCAGCTAGA CTGGTAAATA
71701 CTTGAAGGCA AACGTTTAGC CAGCACATTA ACATTTTATG TTTTATTCTT TTTGTGCTCT
71761 CAGTGGCTGT GTCTTTTCTA TCGATTTCTC ACGTGTATG ATGGTTATAT TTGTCTGTAT
71821 CTGTCCCACT AGGTATAAGT TCTTGAGAGG ACACACTGCT AGGCTGATCT TAGTTTTTAT
71881 TATTTCTCCT GGTGTCTCTG GCTTAACAAG TGCTCATTAA GTGTGTAAAA ACACAGCACA
71941 GTAAAAAAT AGACATTAAA AAATAATGTC AACCAATCTA TTGAAATTTG CATTTCCATG
72001 TTTCTTCCAA TATAGTCATT GTGTCAGGTT ATGTACTTAT TCTGATGAAG ACTATTGCCT
72061 AATATAAGTT TGCATCTTGT GCTTTATAAC TGCCTTCATA TAGACACAGA TTGAGAAGGT
72121 GTAAAAATGT GCATATCCTC ACAATTGACA AATTCTTATC CTTTGAGGGT AGGTTTGACT
72181 TTCTGAAATG CTTTGACATC ATTTGAAAGA AGCTTGAAGA ATAAGATAGC TGTTAATGAC
72241 CCAGTTTCCT ATGTCACTTA TACAATTATA ATGGCAATTT CAAAATGTTA GGTAAATATA
72301 TTTTGCAATA TATTGTTCTT TTTGTAATAC TCTCTATGTA TTTATTTATA TTTTAAATTT
72361 TTATATTTAT GTATTTATTT TTCTGGACAG AGTCTTGCTC TGTTGCCCAG GTTAGAGTGA
72421 AGTGTGTGTA TCATAGCTCT CTGCAACTTC AAAGTGCTGG GCAAAAGTGA TCCTCCTGCC
72481 TCAGCCTCAT GAGTAGAGTA GCGGGAACCT CAGGCGCATG CCACTGCACC CAGCTAATCA
72541 CTATTTATTA TGCTCCTACT GTGTGCTTTA GTATATTTTC TGTTGTTTTT TGCAACCCAT
72601 TTTGAGGGCG TGTTAGGGAA TACAGATGCA GTAACTTTGG TCTCAGCCCT TGAGGTGAGG
72661 AAATATTTAG CCTCAGGTTT AATCTAATTG TTGGCCATTT GCCTTCAAAG ATTGAAATAT
72721 GAGCAAACT GTGGCTCTGG GTTATATGTT AAAAAAAGT TTATGGGGCT GAAGCCAGGC
72781 AACAGACAAG AGCCCCCTACA ATCTTATTTA GGCTGAAAAT ATCCTGGAGT CCCTGTATTG
72841 TTGGTCTCAA GCAGATAGCA AACTAACAC TTAATCTTTG AGGCAGGCAC TGCCAGTGGG
72901 GTGGCTGTTA TTATTAGCTT CATTAATTGG TGAGTCAGGA AAAACAGCT TTAATCATT
72961 CAAAGTTCTG GCCTATACAG GATTTAGTAA TATTAGGTTA GCTACATCCA AAAGATGACA
73021 GAACCCTACT CTAAGGCTGG GCTTGGTGGT TCACACCTAT AATCTCAAAA CTTTGGGAGG
73081 CTGAGGCAGG AGGATCACTT GGTGCCAAGA GTTTGAGACC AGCCTGAGCA ACATAGTGAG
73141 ACCCCTGTCT CTATCAAAAA CAAAGAACTC TAATTGGCAT AGTAGAAGGA AAAAGTGAAA
73201 GAAAAACCAG CTGTCACCCT CATTCCTTAC ACCTGTCCTA ACAACTCCTC TCACTATCCT
73261 TTGAATATAT CTTGGCTGTT TGAGTCTCTC TCTAGCCCCA TTAATGCTGT TTGGACTTGA
73321 CATTTTGCTC TGCATTTTTA ACTTTTCTAC CAGGGTTTCC AGACCCTGAA GAGTGTGGCA
73381 TGAAACAAA CTAGTCAACC TATAATATTT ATGATGTGTG TGTAATAAAA AGAATACACA
73441 ATATATTGCA TTACAATATT TTAAGTGTGT CCTCAATTTG TTTGTGGCTT TCTTGAGGAC
73501 ATCAGTTTTG GGTGGGACGA CCACATCCTT AATCTGAACT TTCCCTTGGA GGTCAATCTT
73561 TTTTTTTTGA AATAGAGTCT CGCTCTGTCA CCCAGGCTGG AGTGCAGTGG CGCAATCTCA
73621 GCTCACTGCA ACGTCCGCCT CCTGGGTTCA AGTGATTCTC CTGCCTCAGC CTTCCAAGTA
73681 GCTGGGATTA CAGATGCACG CCACCATGCC GAGCTAATTT TTGTATTTTT AGAAGAGACG
73741 GAATTTCACT ATGTTGGTCA GGCTGGTCTT AAACCTCTGA CCTCATGATC TGCCACCTC
73801 AGCCTCCTAA AGTGCTGGGA TTACAGGCGT GAGCCACCCC GCCCAGGACC AGGTCATTCT
73861 AATAGACTTT TTTTTTGTG TTGCTCACAG GCTTGTTCAT TCTTATTTCA AAATTTGAGA
73921 AATACAGTTT CCATGGAACA CCAACCAGAT ATCAGGTTGC TATGGAGTTG ATAGTCAAAA
73981 GCTTTGTATC TTCCAGTTTT TCAGAAATGGC TTCTAAAGGT TCTGATTGAG AGCTCTTAGG
74041 CGAAATTGAA CAACCAAGTG TCAAAGTACA ACATTCAGGA AGTTAAAAAC ATGACTGACA
74101 TATATGTACT ATATATAGTG AGCTTGTGTA TGTGTCAATG AATGATTTAA TTCATTAATG
74161 AAGGAGGAAG CAGAATCACA ATTAGGTCAA AGGAAGATAC GGGAGAATAA AATATGTATT
74221 TGGTCAGGGA AAGGATGTAT ACTGGAAGAG GAAGGGAAAA TCAGATATAA AGTTGTTTAA
74281 TGACTTATTA GGCAATACAA TAATAACTTT TAGGGTCATT TTTTCTATAT TAAGAATTCA
74341 TTTCCATCTC TATGACAAAA TCCTTATTAA TTTATTAAAC TTCTACAAGT GAATGTTTAC
74401 TTTTAGATAG TCTGGACCCA ATAAATGTA AACATTAAGT CAGAGTTACT TTCACGTAGG
74461 ACAGTGTGT CCAATAAGGT ACCACTAGCT ACACGTGATC ATTGACCATT TGGACTATAG

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74521	CTAGACTGAT	TAAAAATGTT	CTAAAAGTGT	AAAATACACA	CCAGGTTCTG	AAGATTTATC
74581	ATTTAAAAAA	GAATGTCAAC	TGTCTTTTTT	TTTAGCTTAT	TTATTATATG	TTGAAGTGAT
74641	AATAGTTTAG	ATATATTAAG	TTAAATAAAA	TATCTTAAAA	TTAATTTTAC	TTGTTTCTTT
74701	TCATTCTTTC	AATGTGACCA	CTAGAAATCT	GGAAAGTATT	TATGTGATTC	ACATTCCTATT
74761	TTACTGTCTA	GTATTGCCTT	ACATCATCAG	GTACCCCAT	AGTAGGCTTT	TTAGATAATT
74821	CTCTAATATA	GCTTGGGAAG	ATATGGAGAA	ATATTTTTGC	GTTGCTTTTA	AGTTTTGCAT
74881	AACTTTTTC	ACACACTTTA	TAAAGGATCT	AGAAAAGGGT	TGGTTACATG	TTTCTCTGTC
74941	TTCTGGCCTC	CACCATGTTG	CCAGGAGGTT	GGGGACAAGA	TTCTGGGTGG	CTGGATGTCC
75001	TAATGGCTTG	AGGTCTGGAC	TTGAGATTGG	CATATAAAGA	GATGTGATTA	GATTGAGTCG
75061	ACTAGAAAAA	TCATATTAGA	GAAGTGAATC	ACAGCGATTA	AATTTACATG	TCGATTTATA
75121	AACCAGGACA	CCAATTTATA	GTGAAAGAAG	GTCCAGTTAC	CTGGTAATCA	AGACGTTTCA
75181	TAGCTATTTT	CATGATGGAT	ATACTTAGCT	GAGTTTTTAA	TGAGAAGGGG	GTTTCATTGCA
75241	CATAGAATAA	GATCTAAGTG	AAATGTTTAT	TTATTTTTTT	TTTTTTTTTG	CATGGAGTCT
75301	TGCTCTGTTG	CCCAGGCTGG	AGTGCAATGA	GGCAATCTCG	GCTTCTGGAG	TGCAATGAGG
75361	CAATCTCGGC	TTCTGGAGTG	CAACGAGGCA	ATCTCGGCTC	ACTGCAACCT	CCACCTCCCG
75421	GGTTCAAATG	ATTCTCCTGC	CTCAGTTTCC	TGAGTAGCTG	GGATTAGAGT	TGCCCTGCCAC
75481	CACGCCAGGC	TAATTTTTGT	ATTTTTTTTA	GTAGAGATGG	GGTTTCACCA	TGCTGGCCAG
75541	GCTGGTCTCG	AACTCCTGAC	CTCAGGCGAT	CTGCCCCT	CAGCCTCCCA	AAGTGCTAGG
75601	ATTACAGGCG	TGAGCCACCA	AGCCTGGCCT	AAGTGACATG	TTCTTATATT	GTTCTTTTCT
75661	TTCTTTTTTT	TTCTGACTGAG	TCTCACCCTG	TTGCACAGGC	TGGAGTGCAG	TGGCGTCATT
75721	TCGGCTCATT	GCAACCTCTG	CTTCCCGGGT	TCAAGCGATT	CCCTTGCCCTC	AGCCTCCTGA
75781	GTGCCACCAC	CCCCAGCTAA	TTTTTGTACT	TTTAGTAGAG	ATGGTGTTTC	ACCATGTCCG
75841	CTAGGCTGAT	CTCAAACTCC	TGGCCTCAGG	TGATCCGCCC	CCGAGTCTCC	CAAAGTGCTA
75901	GGATTACAGG	CGTGGGCCAC	GGGGCCCAGC	CTTATATTAT	TTCTTTTACT	ACAATATATT
75961	AGTATGATGC	AGGTGCTTCA	ATTGTTTATA	CACTTTCCAT	AATTTTGTAT	AATTCCTTATA
76021	CCCTGTCACT	CTGAGGAATA	GCCGGTCTAA	GTGTTTTTCC	ACCACTGCTA	ATTCATCCAT
76081	CACCTAATCTC	ATTAGACTGT	TAATTTCCAG	AGGACATAAG	CACACAAGCA	GACAAATGTTT
76141	ACAAATGTTG	GACAAATGTT	ATTTAATAAA	ACAATGGGGT	CACCCCTTAGT	CTAAAAGATG
76201	TTTCACTTTT	CATTTGTCAT	TGAACTCTTA	TTTGTAGGTT	CCCTTTTGAC	TTTCCCACAA
76261	TCTAAGGCTG	TTCTCTTTAA	CACATATTTT	CATGAAAACA	TATATTTGAG	CAGAAATTGT
76321	TGGGGAGTTG	TAATATTACC	TTTGTCCCTA	AATATGAATC	TATAATTATA	TCAAATATAT
76381	GGGCAGACAA	TTTACTTTGC	CTTTAATCTC	AAGAAAAAAA	TAGCAATTAC	TTGGGGTCGG
76441	AGAGTAAAT	AAGAAGTAGT	GAACCTTAAA	GTAGCAAAC	TTAGAACAGA	ATAGTTTCAG
76501	AGGGGATGAG	AAGAGGTGAT	TTTTTCAGCTC	ATCAACAACA	GATCTTATAA	TAAATTACAT
76561	GTTCTGGTAC	TTTTCTTGTC	TTTCTGTGTT	AAATTTTGCT	ATTTAAAAAA	ATAAATTTC
76621	AATACATTGT	TCATCTTAAA	AGTCAAGAGT	GTGTTTTTAT	AAAGTCAGTT	GCTTTATTTG
76681	CAACTCAAAA	GATATATTTG	AGTTCCCAAC	TGGAGATTGT	CCTATATGGT	AACTTGCGTA
76741	AGGTATGGTT	ACTGAAAGTA	ACCTACAATT	TTCATGGGCT	GAAATTCATT	TCTATATTGC
76801	AGCGTACAAA	AATAAATAAA	TAAAAAATGC	TTGTTTTCTT	TGAAAACATA	TTATCTCAGT
76861	GCCTCTAAT	GCCAAATCTA	TTGGCTTTTT	TGCAGGCTTA	AGGGCTCTCC	CTTGTTCCCT
76921	TATGATCTCT	ATCTTGAGGG	CCAGACCTCC	TGCCTTACAC	AACTCAGAGG	GGGACCTCAG
76981	AGCTCTTTAA	AAAGAGCCCA	ATTTCTCGCC	TGTAGAGAAG	TGAAAAGGAT	GCCCCACCCC
77041	CATCTATGAA	AAGAGGGATT	TGATAGTTTC	AATGTCTTCA	AATCAAAGAT	TTAAGCTCTGT
77101	AGCCCCCACC	CACCCCGGAC	CCTAGCAAGG	CTCATGAACC	CCCTCCCATC	CCGCCCTAAT
77161	TGCTTTGGAC	TGGCCGTGGA	ATCCTTGTCC	CAGTCCACAG	TTCTGTGCG	ACTGCACGAA
77221	GAATTCACAG	AGGACCTGTG	TTACTTCCCT	TGTGAAGAAA	CAGAATTATC	ATGAAAATTT
77281	AGGTGGAAAC	CATTTGCTT	TTTTCTTCAA	AAATAAGGGA	AGCATGTGCC	CAACCACCCC
77341	TGGGAAAAAG	AACCTTCAGG	GGCAAAGGAG	CGAACAGGTA	ATTTATAAGA	AAAACAGAAA
77401	GTGGTCTCTG	ACTGCCCCAG	ACTTCTTCG	GAGTTGGGGG	AATTGGGGAC	GCCTGGACGC
77461	GTTGTTTTTG	CGTTTGTGGA	AAAAATAAAT	GAAGAGCATG	AAGCCCGAGG	CTTCTGAGAT
77521	CCTTTCCTGA	CCAAACCCAA	GTGATTTGGT	GCGGGGAATT	TTAATATTTT	TCCCTTTTG
77581	TGAGGTGGAA	CAAACACAAC	TTGGGAGCAG	CGCAGCGGCT	CAGAGCCTGC	CAGCCAGGCG
77641	GGCAGCAGGA	GCACCAATCA	GAGCGCGCCT	GCGCTCTATA	TATACAGCGG	CCCTGCCCGG
77701	ACGCTGCTTC	ATCGGCGCTT	TGCCACTTGT	ACCCGAGTTT	TTGATTCTCA	ACATGTCCGA

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77761	GACTGCTCCT	GCCGCTCCCG	CTGCCGCGCC	TCCTGCGGAG	AAGGCCCTG	TAAAGAAGAA
77821	GGCGGCCAAA	AAGGCTGGGG	GTACGCCTCG	TAAGGCGTCC	GGTCCCCCGG	TGTCAGAGCT
77881	CATCACCAAG	GCTGTGGCCG	CCTCTAAAGA	GCGTAGCGGA	GTTTCTCTGG	CTGCTCTGAA
77941	AAAAGCGTTG	GCTGCCGCCG	GCTATGATGT	GGAGAAAAAC	AACAGCCGTA	TCAAACCTGG
78001	TCTCAAGAGC	CTGGTGAGCA	AGGGCACTCT	GGTGCAAACG	AAAGGCACCG	GTGCTTCTGG
78061	CTCCTTTAAA	CTCAACAAGA	AGGCAGCCTC	CGGGGAAGCC	AAGCCCAAGG	TTAAAAAGGC
78121	GGGCGGAACC	AAACCTAAGA	AGCCAGTTGG	GGCAGCCAAG	AAGCCCAAGA	AGGCGGCTGG
78181	CGGCGCAACT	CCGAAGAAGA	GCGCTAAGAA	AACACCGAAG	AAAGCGAAGA	AGCCGGCCGC
78241	GGCCACTGTA	ACCAAGAAAG	TGGCTAAGAG	CCCAAAGAAG	GCCAAGGTTG	CGAAGCCCAA
78301	GAAAGCTGCC	AAAAGTGCTG	CTAAGGCTGT	GAAGCCGAAG	GCCGCTAAGC	CCAAGGTTGT
78361	CAAGCCTAAG	AAGGCGGCGC	CCAAGAAGAA	ATAGGCGAAG	GCCTACTTCT	AAAACCCAAA
78421	AGGCTCTTTT	CAGAGCCACC	ACTGATCTCA	ATAAAAGAGC	TGGATAATTT	CTTTACTATC
78481	TGCCTTTTCT	TGTTCTGCC	TGTTACTTAA	GGTTAGTCGT	ATGGGAGTTA	CTGAGGTATC
78541	AGAGACGAAT	TGGGTGACGG	GGTTGGAGAG	TGGCCGTGGT	GAGGTTACAG	CATTTAAACC
78601	TTTATTGCGG	CTTCTAGGTC	CCTGACCGGA	GGCTTTTCTC	GCTGGCGGAT	GGTTTTGGGA
78661	TGGCAGTCCC	GCCCCAGGCC	TGTGAACGGC	AGAAAAGACC	GCAAAAACAAG	AGCCAGTTTC
78721	TTAGTCTAAA	GGGATGTCCG	GATTGGACTA	AAAAATTTTC	AAAAGTCCCG	CCCTGCTCCC
78781	GGGTTGGTCC	GTTCTTCTAG	TACATGACTT	TCATTCTGTA	TTTAATTGGA	TGGTGGAAGA
78841	CGTTGCTTAT	TCTGTGTTTT	TTGCTTTACT	GTGACTTAAA	AGTTTTGCCT	CTTTTCTCTT
78901	TATATTAATG	TCTGGGATTT	CGGACGCTTT	CCATGTTGTT	GGTAGTCAAG	TTGATGTCTC
78961	CTGGAGGTAG	TGGCAACATC	CAGCCCTGGG	AGGAGAGTGC	GTGCAGGTAC	CTTTGTCCTA
79021	CATTCCTCTG	CTGTTAATTT	CTCATTCCTG	TGGCAACGAA	GGAATGCATT	TAAAAAACAG
79081	CCACAACAGC	GGCAATAGCC	CTTCCCTCCAC	CCAAGGCAAT	CGTGGACCTA	GGGAGTTTTT
79141	TGTGCCACAT	AACATGTAGC	CTTCCGCTAA	ACTGACAGGT	TTGAGCGTAT	CGATTTTGAG
79201	CGTATCGAAA	GCACAACCTT	TAGCCAGCCA	TTTTGTCTC	GCATGACTAC	GGTTGCTTAT
79261	CCTGTTTAGA	CAGACAGCAA	CATTTAAAA	TCGAAGTTCC	TTTAAACGTA	TTTTGTTTGG
79321	CAGTCCAAAT	GTTTCTATGC	AGAAAACAGT	ATTTGTACTA	TTAACTATGA	AGAGTGTATG
79381	GATAAATGGG	AGACATTTCT	AATAAAGGCC	TTCGTTAATG	GTTCCCTCTG	TTTGACATCC
79441	ATGGTGCTTC	TGAATACAGA	AAGCCTAGCG	TCTTATATTC	GCTTCTTTTA	AAATCTGGTG
79501	GGCACATTTT	GGTGAGACCT	AAATTATGGG	GACTGGGGCT	TCTGGAGATA	AGCTGCTCAA
79561	TTATTCTACC	ATCTCCACAA	TGATTAATAT	AGTGAGTTGA	TTTGTTAGTG	ATAGTGACCA
79621	CGGATTCATC	CCAAGAAAGA	GAAAGGGGAG	GGAGGCAAGC	AGAGAGACAG	GAAGACAGAG
79681	GCAGGGAAGA	AGGAGAAAAC	ATTCTCCCAT	GGTTTAAGTA	ATTTTGTGTT	GTAAATTTTA
79741	CATTACAACA	CGGTTTAAAC	TGGTGAACCC	TCTATTTTGG	TGTAAGGTTT	AACATATGGA
79801	CATATTTTTC	CCAAGACCAT	TTATGAACTT	TCATTTCTGC	TTCCCCCTTC	TTCTCCCGT
79861	GCCACCCTCC	ACGCTCCTAT	CAATTTTGGC	TGTTTTGTCA	TAGGCTAATA	CGCTATAATT
79921	TCATGGACAG	TTGGACTGTC	TTAGGTTTCT	CAGGTTTCTA	TTTTGTTCCT	TTAGTCATTC
79981	CCACAATTCT	TAAGGTAGAA	TTGTATTGTT	TTAAACATTG	TGTTGTGTGC	TATCCTCAAT
80041	GCTGAGATGA	TTATGTGACA	AATGGCAAGT	GTTCAACTAA	TACCTAAATC	TGTAGTATCT
80101	TATCAAGCCT	AATGCTACTT	CACAATGCCT	ACTCCATTCA	CCGCACTTTA	TCTCATTAAT
80161	GGCATTCTGT	CATCTCACAT	CATCACAAAGT	AAAACGGTAA	GCTATTTTGA	GAGAGATCAC
80221	AGTCATATAA	TTATATTTAT	ATTTATTTAT	TTATTTATGA	GACGGAGTTT	CCCTCTGTCA
80281	CCCAGGCTGG	AGTGCTGTGG	CACGTTCTCG	GCTCACTGCA	ACCTCCGCCT	CACGGGTTCA
80341	AGCGATTCTC	CTGCCTCCGC	CTCCCAGAGTA	GCTGAGATTA	CAGGGGCTCG	CCACCATGCC
80401	CGGCTAATTT	TTGTATTTTT	AGTAGAGACG	GGGTTTCACT	AAGTTGGCCA	GGCTGGTCTC
80461	GAATCCTGA	CCTCAGGTTA	TCCGCCCACC	TCATCCTGCC	AAAGTGCTTA	GATTACAGGC
80521	GTGAACCACC	GTTACACAGAC	TCAAATCATT	TTTATTACAG	TATATTGTTA	TAATTGTTGT
80581	TTTATTATCA	GTTATTGCTA	ATCTCTTACA	GTGCCTGATT	TATAAATTAA	ATTCATCATT
80641	GCCATGTGTA	TATAGAAAAA	AACAGTGTAT	ATACGGTTCA	GTACTATCTG	TGGTTTCAGG
80701	CATCCACTGG	GGGTGCAGTT	TATTAAACAT	GCATTTACAT	TAGTCTCCCC	TTTGGGAGAC
80761	TAATTAACCTG	AGATGTTGTA	ACGTGACTTT	AATAGCAGAT	AGAGCTAATT	TTCTCTCATT
80821	ACTCTTCTTT	TTCAGAATTT	TCCTGGTTAT	TCCATTTTTT	ATTTTTCCAT	ATGTATATTA
80881	AGATCTCTTC	CACCTCCTCC	TGTTTCTCCA	TCTCAACATC	AAACAATTAA	AAAAAAAAAA
80941	AAAGGCTGGG	CGCGGTGGCT	CACGCCTATA	ATCCAGCTC	TTTGGGAGGC	CTAGGCGGGT

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81001	GGATCACGAG	GTCAGGAGTT	CAAGACCAGC	CTCGCCAAGA	TGGTGAAATC	CCGTCTCTAC
81061	TAAAAGTATA	AAAATTAGCC	AACCATGGTG	GCAGGCGCCT	GTAATCCCGG	CTACTCGGGA
81121	GGCTGAGGCA	GAGAATTGCT	TGAACCCGGG	AGGCGGAGGT	TGCAGTGAGG	CGAGACCTTG
81181	CACTCCAGCC	TGGGTGACAC	AGCGAGACTC	CGTCATAAAA	AAAAAAGCCG	GAAGCAGTGG
81241	CTCACGCCTG	TAATTCCAGC	ACTTTGGGAG	GCTGAGTCAG	GCAGATTACC	TGAGGTCAGG
81301	AGTTCAGGAC	CAGCCTGGCC	ATGAAAATAC	AGCCTGGCCA	TGAAAACACA	CAATAAATTA
81361	GCTGGGCGTG	GTGTACACACA	CCTGTAATCC	TAGCTACTCG	GGAGGCTGAG	ACAGGAGAAT
81421	CACTTGAACC	CAGGAGGCAG	AGGTTGCAGT	GAGTTAAGAT	GACGCCACTG	CACTCCATCT
81481	GGGCGACAGA	GCCAGACTCT	CTCTCAAAAA	ACTAAATAAA	TAAAAATAAA	GTTATGGTAC
81541	ATTGAACCTC	TGTGTTCCCT	TCTCCCTTAG	ATACTTTCAT	GGCTACCCAT	TTAATTGATG
81601	TTCTTATCAT	CTCCAAGAGT	TAGTCAGGAG	AGGAATCAAC	CCAAGCAAAA	ATAGCTGATT
81661	TTCTAATTTT	CCTTCAATGC	CCTTTGGGGT	CTTAATCCAT	TTGATTTATG	TACTTTCAAT
81721	TAATCCTAAC	CTCGAATGTC	TCTGCAAAAC	ATGTTTCCAC	AGATGAAACT	CGTCAAATGA
81781	AACACATTCC	TTTAATTTAT	AGAGTTAAAA	ATTAGAAAAA	TTTTCAATTC	TATTTGGCCT
81841	TTAGATTGAG	TCTTGCATAT	GTTTTCTCAA	TTTTGTTTAT	GCTCTTTAGT	TTTGTTTTAT
81901	TCCATCACAA	TTGTTCACAT	AGCTTACTGG	CTTAGGTCTA	ATGAACCAAT	CATTGTGAAA
81961	TTAAAATTGG	CCATTTTAAG	ATGAAAAAGA	TTCTTGCCCT	AATTTTACTT	AGTTTGTGAA
82021	ACTGTCAATG	AGGACACATG	TTTTTCTGTA	CTCTTAGATT	CACTAAGTAG	TGTCTTGCAA
82081	ATTTAAGTGA	CAAAGGACAG	ATTAACATGC	GAAAAAATAA	GCATGCAATT	TTATTAGTAT
82141	ATTACATGCA	CAGAGTTCCC	AAAGAAAAAA	AAATTGAAAC	CTTAAAAACG	CGGTTAGACT
82201	CACAGACTTA	TACACCATTG	CAACAAAGGA	AAGGGAGTTT	GCACTTCATG	GGATGACGAA
82261	TTTGGAATG	TGACAAGGAA	ATAAATACAT	GGGCAATAAA	AACCATGGAA	GATAAAATGA
82321	AAGATAGAAA	TAATTGTAGT	AAGGTTTGTT	TTTGCAGAGT	CATCTCAGTG	CCAACCTTCC
82381	ATATCTAGTG	ATAAGAATTG	CTCTCTTTTT	CCTGGTATAG	CAGTTGGGGA	CACTTTTTACA
82441	AGGGAAATTT	CTGTCACCTT	CAACAAAGGA	AATTTGGGTA	AAGAGAAGAC	AGAGACCTCT
82501	TCCTACACCT	GTTGATTTTC	AATTGCCTTC	AGCTGAAAT	AATTTTATG	CCAAAGTAGA
82561	ATAATTTGGG	GGTGACATCC	TGATATTCTT	CAAAACTTAT	ATTTAATTTT	ACATTAGTAA
82621	TTATATCATT	TTTGATTTTT	AAATTAGTTT	TATAAAATAA	TTTTGAAAAA	CGGTAAATAA
82681	ATTCAAATAA	TTCCAGAAAC	ACTGCTGATA	AGCCAAAAAC	ATCAATGAAT	ATTGCATAAA
82741	CAACTGATAA	TTCAACCATG	AAAATTTATG	ACATTGTTCT	TGTGTGATAA	AACATGAGT
82801	AACATAAAAA	CTAGAGGCTA	CTTGTAATGC	ATTATTCCAA	ACTTTCTGTT	TTTTATTTAT
82861	TTATTTATTT	ATTTTGAGAC	ATAGTCTCTC	TCTGTCACCC	AGGTTGGAGT	GCAATGGCGT
82921	GATCTTGGTT	CACTGCAGCC	TCCACTTCCC	CGGTTCAAGC	AATTCTCCTG	CCTCAGCCTC
82981	CTGAGTAACT	GGGATTACAG	GCACCTGACA	CCAAACCCGG	CTAATTTTTT	TGTATTTTTA
83041	GTAGAGACGG	GGTTTCGCCA	TGTTTGCCAG	GCTAGTCTCG	AACCTCCTGAC	CTCAGTGATC
83101	CACCTACCTC	GGCCTCCCAA	AGTGCTAGGA	TTACAGGCGT	GAGCCACCAT	GCCCCGCGCA
83161	TTATTCCAAA	CTTTCATACA	CAGTGCTATC	ATGGCTACAA	ATTGAAGTAT	CATATTATAC
83221	ACTCCTAGGC	AAAGCTCTGG	ATATTTTGCC	TATATAAGCC	TGAGGGAAAT	GTAAGTAAAGGA
83281	CATTGTGGTT	GAAATTCATA	CCAGAGATGA	ACAGGCCACG	TGCAAGACAG	AATTACATCA
83341	CTAAAGGATA	TCAGAAGAGA	ATAGGGATTT	AGGGTACAGT	GGCAACAACA	GTTTTGGGAA
83401	CTAGCATTTT	TTGAGCACTT	ATTTACAATA	TGCCAAGCAC	TGTTGCTGAT	TACTCTATAT
83461	TTATTTTCAA	ACACATTCTT	GTCACAGCAC	TTTGAAGTAA	GTGCCATTGT	CATTCCCAC
83521	TCAGGGTGAA	GGACTAAAGC	TTGGTGTGAT	TAAGGATGTA	GCTAGTTAGC	TGTGTGTGTG
83581	TGTGTGTGTG	TGTGTGCATT	TTTTTTTTAA	TTTAAAGTCA	ATAAATTTTT	ATTTGAAGAA
83641	TTTCACATCA	AGGTAAACTT	TGTTCTCTTA	AAGAGCTGGA	GTCAAAATGT	ATCTTCAAAA
83701	GATTTCATCTT	CAAGTTAGCC	CTTCTTAATA	GAAGTATGTC	TTAATCCACA	GTTGTCAGCC
83761	CACAGTTCTT	TTATTTTGAC	TTTTTTTTTT	TTTTTTTTTG	AGACGGAGTC	TCTACTGTCT
83821	ACCCAGGCTG	CTGGGCAGTG	GCGTGATCTC	GGCTCGCTGC	AACCTCTGCC	TCCCGGGTTC
83881	AAGTGATTCT	CCTGCCTCAG	CCTCCTTAGT	AGCTGGGACC	ACAGGCGCAT	GCCATCGTGC
83941	TCGGCTAATT	TTTGATTTT	TATTAGAGAC	AGGGTTTCAC	TATGTTGGCC	AGGCTGATCT
84001	CAAACCTCTG	ACCTCATGAT	CCGCTGCTCT	TGGCCTCTCA	AAGTGCTGGG	ATTACAGGTG
84061	TGAGCCACTG	CACCCGGCCT	TATTTTGCCT	TCTTTAATCT	CCATTTGAAC	ATGGACATAC
84121	TGATGAAAC	TACAACATTC	TTACCAAAAA	ATCTTTGGGA	TTTAATTTCT	TCAACCACTT
84181	TACTTTGGGG	TCATTTTAAG	ATTAGGTGTA	TCTGCCTGGT	TCTCAATTTG	ACACCTTTTC

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84241	TCTCTAAACA	TGAATGAGTT	CCAATCATAT	TTATTCCTAA	GCTATCACAC	TCAAATATAC
84301	TACAGATCTG	TGGAATATGC	CAAAAGTTAA	GGTGAAAAAT	TAAATTATTA	GGTATTTTCAT
84361	AGTTTTGCTA	GTTTTTGATC	TGTGAGTGAA	TATAACTATC	CTCTATGTCC	TGGCACTGTT
84421	CCTCAGAAAC	ATAGGGTCCA	CATATGTAAT	TTTAAATTTT	TTAATAGGCA	CATTTTAAAA
84481	AGTGGA AAAA	GAAATCTATT	TTAATGATTT	GAATCCAGTG	TAACCAAAAA	TTGTTTCAAC
84541	AAGGTATCTA	ATATTAAAAAT	ATTGAGTTTT	TACTTTGTTA	TTTTACTAGG	TCTTTGAAAT
84601	CTGGTGTGTA	TTTTACACTT	AAAGCACATC	ACAGTTTGGA	GTAGCCACAT	TTCCAATGCT
84661	TAATACTCAC	ATATGGTTAG	TGGCAACTAT	CTTGGACAGG	ACAGCTTTTA	TACTCTGGGA
84721	AGACACAAGC	AAATACTTGC	TCTGCAGCAG	AATCCAGATG	TTTTCCAAGA	AAACACTTTT
84781	TCTGACCTGT	TCGTGAAACC	CAGGTAGTGT	CTCTAATACT	TTATATTTTA	TTGGTTTGTC
84841	CTATTGTAAC	CACCCAACGG	GCTCTCCTTG	TCCACTTCCT	AGACAGAGCT	GATTTATCAA
84901	GACAGGGGAA	TTGCAATAAG	GAGCCAGCGC	TACAGGAGAC	TAGAGTTTTA	TTATTACTCA
84961	AATCAGTCTC	CTTGAGAATT	TGGGGACCAA	AGTTTTTAAG	GATAATTTGA	TTGTAGGGGA
85021	CCAGTGAGTC	GGGAGTGCTG	CTTGGTTGGG	TCAGAGATGA	AATTATAGGG	AGCCTAAGCT
85081	GTCCTCTTGT	GCTAAATCAG	TTCTGGGAG	TGGTGGGGTG	GGGGACTCAA	GACCAGATAA
85141	TCCAGTTTAT	CTATATGGGT	GGTGCCAGAT	AATCCATTGT	GTTTCAGGGTC	TGCAAAATAG
85201	CTCAAGCATT	GATCTTAGGT	TTTAAACAGT	TGATTTTATC	CCCAGGAGCA	ATTTGAGGTT
85261	TAGAATCTTG	TAGCTTCCAG	CTGCATGACT	CCTAAACCAT	AATTTATAAT	CTTGTGGCTA
85321	ATTTGTTAGT	CCTGCAAAAG	CAGTCTGGTC	CCCAGGCAGG	AAAGGGGTTT	GTTTCTGAAA
85381	GGGCTGTTAT	TGTTTTTGTT	TAAAAGCAAA	AGTATAAACT	AAGCTCCTCC	CAAAGTTAGT
85441	TAATCCCAAA	CTCAGGAATG	AAAAGGACAG	CTTGGAGGTT	AGACGTTAGA	TGGAGTCGGT
85501	TAGGTAAGAT	CTCTTTCAC	GTAATAATTT	TCTCAGTTAT	GATTTTTGCA	AAGGCAGTTT
85561	CACTGTCCAC	TTCACCTCAC	ATCAGGCCCTC	TGACTAGAGG	ATTCCAACAA	TACTTAGGCC
85621	AGGACACCAC	CATGTCTCCT	TATCCACCCCT	GAGGGATTCC	AATTTCTGAA	ACAAAGGAAA
85681	CTATATATGA	TAGTATGAAA	CTATATATGA	GAAGGAAATT	ATATATGATA	ATCAATTTTA
85741	GGGTTATCTT	ATTGATTAGA	AGATATTAAA	GTGTGACACT	GCCTGGCAAT	GATATCTGCT
85801	GGTAGTAAGA	ATTTGGCGAA	TTTAGTGAAA	TTCTTGAGGC	TGAACCTCCA	CTTCTGTA AA
85861	ATGGAGACAG	TGAGATAATT	TGCCTTACAA	TGCTGAAGTA	AGAATTTTAC	ACAATAATTC
85921	AGACCAACCA	CTTCATGTGG	TACTTGGCCC	GTGGAAGACT	ATCAATGACA	GTTAGTTTAT
85981	AGTTTATACT	ATTAATGAAT	CCTTTGTTTC	ATTGTTATTT	CCTTCTACAC	GTTGGCCCTCT
86041	CTAAAAGAAG	GTAATATTCA	ATACAAATAA	AGTTAAAACA	GCTTGCAGAG	TGTCCCAGG
86101	GAACCTCACT	AACCACTGAA	GTGTTCAAAT	TGCTTAAGGT	TGACTTTATA	TTCTCCTGAC
86161	TAACCTTTCT	CCTTCTGGTA	TTTCTTCTGA	GAACAGCACC	ACCATCCAAA	GCATCATGCA
86221	AACAGTGGTC	ATCCCAGACC	AGTAATTCTC	AACTCACAGG	GTGCTCCTGC	AGAGATGTAT
86281	TTGAATAGAG	TGGTAGGATG	CTGAAGAAGG	CCACGTAAAA	TTTGGCCAGT	GATCTGGGGC
86341	AGATTTATCC	TGAAGCTAAT	GAAACACAAG	TGTAAGGGCC	TGTACTTCCA	AGGTGCAGAG
86401	AGGGGCCCTA	CAAATGTGTT	AGTTTGCTC	TCTCTCTCTC	TCTGATTTTA	AAATTTGCAG
86461	TATTAAGGTA	CTTTAATCAC	GGATGGTTCA	GGCTGCTATT	TTCACTCAAT	CCTCCTTTTT
86521	ATTAAAATCA	CCATTGTCTG	ATTATGTTAG	AATCCTGATG	AAAATATTTG	GAATTTGAGT
86581	AAGAGAAAGT	TTAGTTGAAG	ATGTATCTAG	TATGGGGATA	ATAAGTTACG	TGATTTGCAT
86641	ATGTGATCAT	GTGTACTTCA	TTCGTTGCCA	GCCAATCTGA	CGTAAGAATG	GCTTCAAGGA
86701	GGCCGGGCGC	GGTGGCTCAC	GCCTGTAATC	CTAGCACTTT	GGGAGGCCGA	GACGGGCGGA
86761	TCACGAGGTC	AGGAGATCGA	GACCATCTTG	GCTAACACGG	TGAAACCCCG	TTTCTACTAA
86821	AAATACAAAA	AATTAGCCGG	GCGTGTTGGT	GGCGCCCTGT	AGTCCCAGCT	ACTTGGGAGG
86881	CTGAGGCAGG	AGAATGGCAT	GAACCTGGGA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCGC
86941	CACTGCACTC	CAACCTGGGA	GACACAGCGA	GACTCCGTCT	CAAAAAA AAA	AAAAAAGAA
87001	TGGCTTCAAG	GAATGTTCCCT	ACTGCTCACT	GGAATAACTC	ACCTAAATTC	CTGGCAAGAT
87061	GCAGGTCTAG	ATAAAATGTT	ATGACATCTA	AGTATTCAAA	ACACATTCCC	AGCACTGAGA
87121	GTGAGTGTCT	AGTGGAGAGT	AGAAACGTAT	AGAGCCAGAA	GCTAGTCTGG	AAAGAATTCT
87181	TACAAAGTTT	ACAACCTTACA	TGTGAAAGGA	GCTTAACAGA	GGATTTTCCA	AATTTGAAAA
87241	CAATCCTAAA	AACTTACTTG	ACATTACCAA	TAATGTGTTT	TGAAACTGAA	ATACTTCTAA
87301	GTTATGAAGA	AAACATATTA	TCATCAGCCA	CCCTGGAGGA	AAGATTGAAT	TCTATTTCCA
87361	TTACCTATAG	ACAACATTAC	AAAATAATTT	CGATCTGAAG	ATGGAATCAG	AGTATTCAGT
87421	CAAACTACA	GGAAAATATA	CTTGGTAGTG	TCATATTCAG	AAGTTAATAA	AATATGCTAT

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87481 TTTCTGAATT TTGTGATGGC TGTGTTTTTG TCAGCTTTTA TAAAATTGGA ATTTGATTTT
87541 ATTTTCCCAT TATAAATTTA TATTTACAGT CTGCAGTACT TTTGCATTTT TAATTTTACA
87601 TTATAGCTTT TAATAGTTAA CAAGTTGTAA AAGGTTTGAT CCCAGAAAAA CCTTGATCTA
87661 CCCCCTCAGT TAAGTATACT AATATATTTA GAAAATGGAT GAAATCAGCA TTTGAATATT
87721 TTTAAATATT TATTAAAAGA GGACATGGGT AAAAGAGCTT TGCAGTTGCC ACCCTTCATT
87781 CTCAAATTCC CTGGATAAGG ATGACCGCAT AATCTTTGGA TGGTCATACG CCAAGCTTGT
87841 GTATTTGTTA CATAAATCTA TTTAGTGGAC TTTTGGCAGT GTGTACTGAG GCCAGTTTCT
87901 TCCACCTGAG CTCTGACTCC ACCTCCAGCA GCCCAAAACC AATACTGAAT TTTGGGGTCA
87961 GCTATTGTTT TTGTGGACTT AGGTAACACT ACACACATTG TCTTTATGAT AGCTTTAATA
88021 ATACTGCCAT CAGAACTAAA ATTGTACAGT GGATTAATAAG GAGTGACGGT GGTGTCCCCA
88081 GGAGCCTTTC AATATGTAAG TATTTACACA TATACATGCT AAAAGACCC CTAGGAATTT
88141 TTTTAAACAAG GGCAAAACAG TAACTCAGCT TGTTTTCTCG CAGTAAAACC GGTGAAAAG
88201 GCCTGATAGA CTTGTCTGCA GTTACAAAAC TTGTGTGTAG TTATCACCTT TATATCTCCT
88261 GGAAACTAAC ATAGACAACC GAATGGGTTA CAACTGTTTT TAAGTGAAAT TGTGAGTGGC
88321 TCTGAAAAGA GCCTTTTCAA TGAGGAAGAA ACGGGCAGAC TTATGCCCTT TCCCCACGGA
88381 TGCGACGTGC CAGCTGGATA TCTTTGGGCA TGATGGTGAC GCGTTTAGCG TGAATAGCGC
88441 ACAGATTGGT GTCTTCGAAG AGTCCCACCA GGTAGGCCTC GCAAGCCTCC TGCAGCGCCA
88501 TCACCGCAGT GCTCTGGAAG CGCAGGTCGG TTTTGAAGTC CTGGGCGATT TCTCGCACCA
88561 GCGCTGGGAA CGCGAGCTTC CGGATCAGCA GCTCGGTGGA CTTCTGGTAG CGACGGATTT
88621 CGCGCAAGGC CACGGTGCCC GGGCGGTAGC GATGAGGTTT CTTACGCCA CCGGTGGCCG
88681 GAGCGCTCTT ACGGGCTGCT TTAGTAGCAA GCTGCTTGCG CGGAGCTTTG CCGCGGTAG
88741 ACTTGCGAGC TGTTTGCTTC GTACGAGCCA TTTGCAATGA GAGCACACAC AAAAGTGTAG
88801 TGAAGTGAAG GCAAGTGGCC TTTAAATATA GTGAGAAACA TTCTGATTGG TCCTGTAATA
88861 TTTCAAAAGT CCCGCGCGAT AAAATCATTG GCTGAAGAGT GACCAGACTG ATTGGTTCAT
88921 TACTAGACAA TCTTATTGGA TGAGTTGCCC CACCGCCCAT CCTGTCCTTT TCGTTTCAGT
88981 TATCTGCAGC GACAAATTGT CTAAATTTCT AGTTCATCCA GTCCCAAAGA ACAGAGTGTA
89041 TAACAAGGTA TCTAAGGATT TTTAAAATGT AAATTCCGAT TCAGTAAGTT TGAGTGGGAC
89101 TTGAAATTCT GCATTCCTGA CAGTCTCGCA AGTTATCAAT GCTGGTGAAC ACTCACTAAA
89161 CCACCAGAAA CGTTCAGACT CATGTCGGGA AATAACGCTT ATATTCAGAG AATGAGATTC
89221 CATGCTATTT TGTTACTGGC GAACAGCAAG TTTCTTGCC CTTTGTTTTT TAAGTCCAAG
89281 TCACATTTCC ACCCTGCCGT TTCTCAAAAT GTCTTATTTT GGTGCGCCTT AAGTTTCACT
89341 TTGTATATCT TAAAATGTAC TTTCTAAAGG AAGGTGTTAT TTTCTCGAAA CTTAACTTTT
89401 TAACACCATT AGGCTAGGGG GCGGTGGCT CACGCTGTA ATCCAGCAT TTGGGAGGG
89461 CGAGATGGGA CGATCACTAG AGGCCAGGAG TTCAAGACAA CCCTGGCTAA AATGGTGAAA
89521 CCCCCTCTCG CATAAAAATA CAAAACTAG CTGGGCGCGG TAGCAGACGC CTGTAATCCC
89581 AAGTACACAG GAGGCTGTGG CATGAGAACC GCGTGAAGCG GCGGGGTGGA GGTTGCAGTA
89641 AGCCGATATC GCGCCGCTGC ACTCCAGCCT GGGTGACAGA GCTAGACTGT CTCAAAACAA
89701 ACCAATCCAA ACGAAAAGCA AAAAATACCC TAACAGAAGC AAGTTATCAT CTTTCTTGT
89761 GTAACATATG ACGGCTCTGA AAAATGCCGT TTCAAGTGTA AGCTACGTTT TCTGATTTGA
89821 GTGTTTACTT GACCTTGGCC TTATCGTGGC TCTGTTATTT TGGCAACAGG ACGGCCTGAA
89881 TATTGGACAG GACGCCCTCC TGAGCAATAG TGACGTTGCC CAGCTGCTTG TTGACCTCCT
89941 CGTCGTTTCG GATGGCCAGC TGCAGGTGGC GGGGGATGAT GCTGCGGGTC TTGTCACGTA
90001 TGGCGCTGCC CACCACTTCT AAGATCTCGG CGGCCAGGTA CTGTAAGTAC ACTGGCGCAC
90061 CGGCTCCGCA CGGCTCAAAA TAATTGCCCT TTCGAAAAAG ATGACGGACT CTGCCCTATT
90121 GGGAACTGCA AGCCCGGTAG CGACGAACAA GTTTTGTCTT TAGCTCCATT TTCCACGTCC
90181 GCAAAATAGCG ACCTATGAAA GCAGCGGAAA ACTGTGAAAG ACAAGCAAGC TGAATGGCG
90241 CCTGAACAAA TCCTTTTATA CAAACTGCAA GGCTGCAATA GGAAGCTATC CTATTGGTCA
90301 ATTATGTTTG GTGCTTTATC CAATAGAAAA AGATAACATA AATTCCATAT TTGCATAAAC
90361 CCCACCCCTC AGTGAAACCG TGTTTCTTTT GTCCAATCAG AAGTGAGGAA TCTTAAACCG
90421 TCATTTGAAT CTCAGGACTA TAAATACATG GGCTCTGAAC TGTTCTCTGT ACTACTCTGT
90481 AGTGGAGAGT GTTAGTAGCT TTTCTATTCT GTTTAGGAAT AGCAATGCCT GAACCCTCTA
90541 AGTCTGCTCC AGCCCTTAAA AAGGGTTCTA AGAAGGCTAT CACTAAGGCG CAGAAGAAGG
90601 ATGGTAAGAA GCGTAAGCGC AGCCGCAAGG AGAGCTATTC TATCTATGTG TACAAGGTTT
90661 TGAAGCAGGT CCACCCCGAC ACCGGCATCT CATCCAAGGC CATGGGGATC ATGAATTCCT

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90721	TCGTCAACGA	CATCTTCGAG	CGCATCGCGG	GCGAGGCTTC	TCGCCTGGCT	CACTACAATA
90781	AGCGCTCGAC	CATCACCTCC	AGGGAGATTG	AGACGGCTGT	GCGCCTGCTG	CTGCCTGGGG
90841	AGCTGGCTAA	GCATGCTGTG	TCCGAGGGCA	CTAAGGCAGT	TACCAAGTAC	ACTAGCTCTA
90901	AATAAGTGCT	TATGTAAGCA	CTTCCAAACC	CAAAGGCTCT	TTTCAGAGCC	ACCTACTTTG
90961	TCACAAGGAG	AGCTATAACC	ACAATTTCTT	AAGGTGGTGC	TGCTGCTATT	CTGTTTCAGT
91021	TCTAGAGGAT	CAACTGGAAT	GTTAGCGAAG	ACAAGTTTTA	GAGCCAAGGT	TAACCTGGAC
91081	GGGGCCGTGC	GCGGTGCCCTC	TTGCCTTTAA	TCCCGGCAAT	TTGGGAGGCC	GAGGCGGGCG
91141	GATCACTTGA	GGTCGGGAGT	TCGAGACTAG	CCCGGCCAAC	ATGGCGAAAG	CCCGTCTCTA
91201	CTAAAATACA	AATGATAGAC	GGTCGTGATG	GCGCTCTTTC	TCATCTGTCT	TAGCAAACCTT
91261	CTTTGTTCCT	CCTGGGTAAG	CCTTCGGGTA	CTATGTATAA	TTCTTTTGAT	AAGGTCACTA
91321	CTCCCTCCCT	GGTCTAGTAC	AGGAACTTTC	CCTTTCTGGA	TAATGAAGCA	GGTAATGGAA
91381	TTCAGGGTAT	AGTGTTCCTG	TGGGGGTCAT	TAGCCGTAA	CTTCTTGTA	GATGCGGGGG
91441	AGGGGAGCAG	AAAAGTCTAA	GCGACAAAAG	GGCATGTAGG	GATATTTGCT	CCTGCAGCTT
91501	GCCTATGCTG	TAAATTCCTA	CTTCAAGTAT	TGAGGAAACA	ATAAGCGAAG	TCTGATTTCC
91561	CGGGCGCCTT	TATACGGAAT	ATTTCCCGCT	CCACAAAATG	AAATCGCAGT	AGTTTTGAGT
91621	TATAATTGTT	TATCAATGAC	AACAGCTATG	TAGTTTACAT	ATTTTCATGCA	TCCCAGAAAT
91681	CCAGATTCCC	ATTTCCCTAAG	CCAGCTTAACG	TTCTGATTTT	CAGCTCTGCG	AGATACAAAA
91741	GGGTTTGAT	TTTGTGCCCT	TCCCCATCTG	GCGCCACTGC	AAAGCTTACT	AGGAGGGCCC
91801	CACCTGGAGA	GGGAAATCTT	TTTCGAGAAG	TCCAGGACGC	CAAAAACAAT	ATAGCTAAAA
91861	AAAAAAGGCA	AAAAAAGGCA	GGAAGAGCAC	TAGTTGAGGA	GGAGGACTCA	ATGGGCCAAT
91921	TCTGGGGCTG	GGGCTGGGGG	AAGAAATGCA	AGAAGAAAAG	ACACTTGTTG	ACTGCACAGT
91981	AAGCAGGAGG	GGGTGGGGGA	ATCGGAGGGG	AGTATTTTCA	GCGAATTTAT	GGGCATTATA
92041	TGTAGGTGAC	ATACAGCAGT	GTCTTTGGAT	GAAGAAATAA	AGTTTCTCAA	ACAGTTCTTG
92101	TTTTTGTFTT	GAGAAAGGGC	CTTTCTCTGT	CGGCCAGGCG	CCATCATAGC	TCAGTGAAC
92161	CTCGACTTCC	CCAGCTCAAG	CGATCCTCTT	ACTTCAGCCC	CTTGAGTGGC	TGGGACTAGA
92221	GAAATGCACC	ACCATACCCA	GTAAATTTTT	TAATTTTTTG	TGGAGGCAAA	GGGTCTTACT
92281	TTGTTGCCCA	GGCTGGTCAA	GCGAACTCCT	GGGCTCAAAT	GATCCTCCCG	CCTTGGCCTC
92341	CCAAAGTCCT	GGGATTATAG	GAATGAGTCA	CCGCGCCCGG	CCCAGATTTA	ATTTTTAAGA
92401	ATCTTTTAAA	AGAGGTTCTG	GGCCGGGTGT	GGTCGAGCTC	ACGCCTGTAA	TACCAGCATT
92461	TTGGGAGGCC	AAGGTGGGAG	GATCACTTGA	CCCCAGGAGC	TCAAGACCAG	TCTGGGCAAC
92521	TTAGTGAGAC	CTTTTGTCTC	CACCAAAAAT	TTAAAAAATT	AACCAGGCCT	TGTGGGCACAT
92581	TTCTGTAGTC	CCAAGTACTG	GGGAGGCTGA	AGTGGGAGGA	TCATTTGAGC	CTGGAAGGTG
92641	GAGGTTGCAG	TAAGCTGTGA	CGGCACAACT	GCACTCCAGT	CTGGGTGAGG	ACAGACCCTG
92701	TCTCAAAAAT	AAAAAATAAA	AAAAAATCTG	GATGCCACAC	AAAATGTCAG	TGAACAACCTG
92761	TAAGTGAAGC	ACTTCCCATC	CTAGTACTGT	ATATGCAAAC	TGCCGTTGTG	AAAGTGACGC
92821	TTGGCTTAAA	AATCTACATT	CTTTTTTTTAA	TTATAAAACT	ACCACATCCC	CCAAAAACAT
92881	TACTAAGGAA	TTGAGGCTGC	AGTTTAAGAA	GCTGATATTT	AGGATCTATC	TCCGGAGAAG
92941	TGAGACCTGG	TAATATAAGC	ATTTTCAAAA	TGAACTTTTG	GGCCAGGTGA	GGTGTGTCAT
93001	GCCTGTAATC	CCAGCACTTT	GGGAGACCTA	GTCAGGCAGA	TCACTTGAGC	TCACAATTCCG
93061	AGACCAGCCT	GAGCAACATG	GCGAAATCCA	GTCTCTACAA	AAAATTAGCA	GGGCGTGGTG
93121	GCATATGCCT	ATAGTTCCAG	CTACTATAGA	GGCTGAGGTG	GGAGGATTAC	TTGAGCCCGG
93181	GAGGCAGAGG	TTGCAGCAAG	CCAAGATCGC	CGCGCCACAG	CCTGAGCGAC	AGAATGAGAT
93241	ATGCACCCAC	GCCCTAAAAA	AAAGCATGAC	TCATTAATAA	AAAAAAATTT	AGCCGGTCGC
93301	GGTGGCTCAC	GCCTGTAATC	CCAGCACTTT	GGGAGGCCGA	GGCGGGCGGA	TCCAGAGGTC
93361	AGGAGATGGA	GACCATCCTG	CTTAACACGA	TGAAACCCCG	TCTCTACTAA	AAATACAAAA
93421	TAATTAGCTG	GGCGTGATGG	TGGGCGCCTG	TAGTCCCAGC	TACTCGGGAG	GCTGAGGCAG
93481	GAGAATGGCG	TGAACGCGGG	AGGCGGAGCT	TGCAGTGAGC	CGAGATCGCG	CCACGGCACT
93541	CCAGCCTGGG	TGACAGAGCG	AGACTCCGTC	TCAAAAAAAA	AAAAAATAAA	AAAATTAATA
93601	AAATATGAAG	TTTGAAGCA	GAAATTATTT	TGTCGTATGT	TCTTTCATAA	ATTTTTTGCC
93661	TGCCTGCCTT	CTTCCTTTGT	TACAGAACTC	CAACACTTAC	CCAAAGGTAG	CTGTTGGGTC
93721	AGGGTTTCTG	TACTATAGTC	CCTTCTGTGG	TGGCCAGAAA	TATGTTACAG	GAAAGAGGTC
93781	CCCATCCAGA	CCCCAAGAGA	GGGTTCTTGG	ATCCCGCGCA	AGAAAGAGTT	CAGGGTGAGT
93841	CCGCAGTGCA	AAGTAAATGC	AAGTTTACTA	AGAAAGTAAA	GTGGTGAAAC	GACAACACT
93901	CCATAGACAG	AGCAGGACAT	TCCCGAAAGT	AAGAGGAGGA	AGGCATCCAC	CCTAGGTACA

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93961	ATACTTGTAT	ATATGGGGAG	ATGTGCTCTG	CTACAAGTTT	GTGATAAAGG	ATTAATTTTC
94021	TTAGTTACTA	TATTTTGCAA	GAATCAACAT	TATTATCTTT	AAACAAAATT	AAGAATGCCT
94081	TTGTTCTCCA	GATATAGGGA	TATCTGGACA	CTCCTAAGTC	TGAGTCTGTT	TAGTAAACAT
94141	TATTTATTTG	TTCCCTTAAC	CGTAAACATC	TAGAAGCTAG	GAATGACTGA	CTTTCTGGGA
94201	ATGCAGCCCA	GAAAGTCTCA	GCCTCATTTT	CCTAGCCCTC	ACTCAAAATG	GAGTTACTCT
94261	GGTTCAAGTA	ACTCTGACAC	TTTTCTTCTC	TTTTTTTCTT	CTTTTTTCTT	TCCTTTATTT
94321	TTTATTTTTT	ATTTTTGAAA	TAAGAAATCA	AGAACTACTG	ATGTTTCATC	TAAAACAATA
94381	CCCATAATTG	ATAAGCCAAA	ACAAAAACCT	AGGTCTTCTA	ACTCAAAACT	AGGATGTTTT
94441	GCTGTCTCTG	CTGATACTCG	GCTGATCGTT	AATAGGTAAT	TAACAAACAA	GCCTTGCTAT
94501	GTCCCCCTCA	GTTTATTACC	ATTAGATCAT	ATGCCTACTG	TCAATCATAT	TAATCCACAA
94561	CTATGCATTT	CACAAAACCT	GCCATAAAAA	TTCACAGGTT	TCCCGCTTCC	CTCGAGTTTT
94621	CATTTCCGAA	GGGTCCCATG	TAATATAAAA	CTTATATTAA	ATACATTTGT	ATGCTTTTCT
94681	CTTGCTAATC	TTTTTTTTTG	TTTTTTTGAGA	CTGAGCCTTG	CTCTGTCACC	CAGGCTGGAG
94741	TGCAATGGCG	CGATCTCGGC	TCACTGCAAC	CTCCGCTTCC	CAGGTTCAAG	CGATTCTACT
94801	GCCTCGCCCT	CCCGAGTAGC	TGGGACCACA	GATACGTGCC	ACCATGCCCC	GCTAATTTTT
94861	GTATTTTTAG	TAGAGACAGG	GTTTCACCGT	GTTGGCCAGG	ATGTTCTCAA	TCTCCTTACC
94921	TCGTGATCCG	CCCGCCTCGT	CCTGCCAAAG	TGCTCGGATT	ACAGACGTGA	GCCACTGCAC
94981	CCGACCAATC	TGCTTTTTTG	TAGAGGGGCC	TCAAGCATGA	ACTTACTGAT	GGGTGAGAAA
95041	AACAGAATTT	TCTTTTCCCC	TACAATATAA	ACATTAATTG	TAATGTTATC	ATTGAGGACA
95101	TTTTGGTGAC	CAATCTTACA	GAAATTTTAT	CTTGTCGAAG	TCTATGCAAA	CCAATATGTA
95161	AATCTTCTAT	AAGTGAGATT	GTATTTCACT	TTTCTAGTAT	CCTTTTAAAT	TAATAAAAGA
95221	GATTCTAATG	ATTATTTTCA	TTACTGCATT	TCATTGTAGG	GAAGTAGATA	ATTGCCCTTT
95281	ATTCCTGAC	CTTCGCTTTT	TAAAAATTTA	AACCATGTTA	CCATGAAAAT	GCTTTTTCAGT
95341	ATTCTCTTAC	ACACAAGATT	GCTGTAAGGG	CAAAAATAGA	GATAGGAATC	ATGCATCCAT
95401	TGATATACAT	ATTTTGATTT	TTAATACATG	TTACCAAGTT	GCCTCCTGAA	GGTCTGTTTA
95461	CACTCTCACC	AACAGGGTGT	TTTTTCCTGA	CTTCCACAAA	TGCTCTTGAA	CAGTGGGTGT
95521	GTTAGTCTGT	TCAAATTGCC	GACATGAACA	ATTAAATCTC	ATTGTTGTTT	TTATTTTTTAA
95581	GACAATTATT	GTTTGAGACT	GCACATTTTG	ATAATAACAT	TTCTTCTATT	ATGGTTTGAT
95641	TACTCATGAT	TCTTGCCCAT	TTTCTTTTGG	GATGTTGCCT	TATGTACATT	ATTTTAAATA
95701	GATAGCTCCA	TGTATTAAAA	GATTATTAAG	TTTGAGGGCT	TATGATATGT	CAGTTACATT
95761	TCTAAGATTT	TTTTTTTTTT	TTTTTTTGAGA	CGGAGTTTCA	CACCTGTTGC	CCAGGCTGGA
95821	GTGCAATGGT	GCGATCTCGG	CTCACCGCAA	CCTCCGCCTC	CAGGGTTCAA	GCAATTCTCC
95881	TGCCTCAGCC	TCCCCAGTAA	TTGGGACTAC	TGGCAAGCGC	CACCACGCCT	GGCTAATTTT
95941	GTATTTTTTAT	TAGAGATGAG	GTTTCTCCAT	GTTGGTCAGA	CTGGTCTCGA	ACTGCCGACC
96001	TTGGCTTAAA	AATCTACATT	CTTTTTTTTAA	TTATAAAACT	ACCACATCCC	CCAAAAACAT
96061	TACTAAGGAA	TTGAGGCTGC	AGTTTAAGAA	GCTGATATTT	AGGATCTATC	TCCGGAGAAG
96121	TGAGACCTGG	TAATATAAGC	ATTTTCAAAA	TGAACTTTTG	GGCCAGGTGA	GGTGTGTCAT
96181	GCCTGTAATC	CCAGCACTTT	GGGAGACCTA	GTCAGGCAGA	TCACCTGAGC	TCACAATTCTG
96241	AGACCAGCCT	GAGCAACATG	GCGAAATCCA	GTCTCTACAA	AAAATTAGCA	GGGCGTGGTG
96301	GCATATGCCT	ATAGTTCCAG	CTACTATAGA	GGCTGAGGTG	GGAGGATTAC	TTGAGCCCGG
96361	GAGGCAGAGG	TTGCAGCAAG	CCAAGATCGC	GCCGCCACAG	CCTGAGCGAC	AGAATGAGAT
96421	ATGCACCCAC	GCCCTAAAAA	AAAGCATGAC	TCATTAAAAA	AAAAAAATTT	AGCCGGTCTGC
96481	GGTGGCTCAC	GCCTGTAATC	CCAGCACTTT	GGGAGGCCGA	GGCGGGCGGA	TCACGAGGTC
96541	AGGAGATGGA	GACCATCCTG	CTTAACACGA	TGAAACCCCG	TCTCTACTAA	AAATACAAAA
96601	TAATTAGCTG	GGCGTGATGG	TGGGCGCCTG	TAGTCCCAGC	TACTCGGGAG	GCTGAGGCAG
96661	GAGAATGGCG	TGAACGCGGG	AGGCGGAGCT	TGCAGTGAGC	CGAGATCGCG	CCACGGCACT
96721	CCAGCCTGGG	TGACAGAGCG	AGACTCCGTC	TCAAAAAAAA	AAAAAAAATA	AAATTTTAA
96781	AAATATGAAG	TTTTGAAGCA	GAAATTATTT	TGTCGTATGT	TCTTTCATAA	ATTTTTTGCC
96841	TGCCTGCCTT	CTTCCTTTGT	TACAGAACTC	CAACACTTAC	CCAAAGGTAG	CTGTTGGGTC
96901	AGGGTTTCTG	TACTATAGTC	CCTTCTGTGG	TGGCCAGAAA	TATGTTACAG	GAAAGAGGTC
96961	CCCATCCAGA	CCCCAAGAGA	GGGTTCTTGG	ATCCCGCGCA	AGAAAGAGTT	CAGGGTGAGT
97021	CCGCAGTGCA	AAGTAAATGC	AAGTTTACTA	AGAAAGTAAA	GTGGTGAAAC	GACAACTACT
97081	CCATAGACAG	AGCAGGACAT	TCCCGAAAGT	AAGAGGAGGA	AGGCATCCAC	CCTAGGTACA
97141	ATACTTGTAT	ATATGGGGAG	ATGTGCTCTG	CTACAAGTTT	GTGATAAAGG	ATTAATTTTC

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97201	TTAGTTACTA	TATTTTGCAA	GAATCAACAT	TATTATCTTT	AAACAAAATT	AAGAATGCCT
97261	TTGTTCTCCA	GATATAGGGA	TATCTGGACA	CTCCTAAGTC	TGAGTCTGTT	TAGTAAACAT
97321	TATTTATTTG	TTCCCTTAAC	CGTAAACATC	TAGAAGCTAG	GAATGACTGA	CTTTCTGGGA
97381	ATGCAGCCCA	GAAAGTCTCA	GCCTCATTTT	CCTAGCCCTC	ACTCAAAATG	GAGTTACTCT
97441	GGTCAAGTA	ACTCTGACAC	TTTTCTTCTC	TTTTTTTCTT	CTTTTTTCCT	TCCTTTATTT
97501	TTTATTTTTT	ATTTTTGAAA	TAAGAAATCA	AGAATACTTG	ATGTTTCATC	TAAAACAATA
97561	CCCATAATTG	ATAAGCCAAA	ACAAAAACCT	AGGTCTTCTA	ACTCAAAACT	AGGATGTTTT
97621	GCTGTCTCTG	CTGATACTCG	GCTGATCGTT	AATAGGTAAT	TAACAAACAA	GCCTTGCTAT
97681	GTCCCCCTCA	GTTTATTACC	ATTAGATCAT	ATGCCTACTG	TCAATCATAT	TAATCCACAA
97741	CTATGCATTT	CACAAAACCT	GCCATAAAAA	TTCACAGGTT	TCCCGCTTCC	CTCGAGTTTT
97801	CATTTCCGAA	GGGTCCCATG	TAATATAAAA	CTTATATTAA	ATACATTTGT	ATGCTTTTCT
97861	CTTGCTAATC	TTTTTTTTTG	TTTTTTTGAGA	CTGAGCCTTG	CTCTGTCACC	CAGGCTGGAG
97921	TGCAATGGCG	CGATCTCGGC	TCACTGCAAC	CTCCGCTTCC	CAGGTTCAAG	CGATTCTACT
97981	GCCTCGCCCT	CCCGAGTAGC	TGGGACCACA	GATACGTGCC	ACCATGCCCC	GCTAATTTTT
98041	GTATTTTAG	TAGAGACAGG	GTTTCACCGT	GTTGGCCAGG	ATGTTCTCAA	TCTCCTTACC
98101	TCGTGATCCG	CCCGCCTCGT	CCTGCCAAAG	TGCTCGGATT	ACAGACGTGA	GCCACTGCAC
98161	CCGACCAATC	TGTCTTTTTG	TAGAGGGGCC	TCAAGCATGA	ACTTACTGAT	GGCTGAGAAA
98221	AACAGAAATT	TCTTTTCCCC	TACAATATAA	ACATTAATTG	TAATGTTATC	ATTGAGGACA
98281	TTTTGGTGAC	CAATCTTACA	GAAATTTTAT	CTTGTGCAAG	TCTATGCAAA	CCAATATGTA
98341	AATCTTCTAT	AAGTGAGATT	GTATTTCACT	TTTCTAGTAT	CCTTTTAAAT	TAATAAAAGA
98401	GATTCTAATG	ATTATTTTCA	TTACTGCATT	TCATTGTAGG	GAAGTAGATA	ATTGCCCTTT
98461	ATTCACTGAC	CTTCGCTTTT	TAAAAATTTA	AACCATGTTA	CCATGAAAAT	GCTTTTCAGT
98521	ATTTCTCTAC	ACACAAGATT	GCTGTAAGGG	CAAAAATAGA	GATAGGAATC	ATGCATCCAT
98581	TGATATACAT	ATTTTGATTT	TTAATACATG	TTACCAAGTT	GCCTCCTGAA	GGTCTGTTTA
98641	CACTCTCACC	AACAGGGTGT	TTTTTCCTGA	CTTCCACAAA	TGCTCTTGAA	CAGTGGGTGT
98701	GTTAGTCTGT	TCAAATTGCC	GACATGAACA	ATTAAATCTC	ATTGTTGTTT	TTATTTTTTAA
98761	GACAATTATT	GTTTGAGACT	GCACATTTTG	ATAATAACAT	TTCTTCTATT	ATGGTTTGAT
98821	TACTCATGAT	TCTTGCCCAT	TTTCTTTTGG	GATGTTGCCT	TATGTACATT	ATTTTAAATA
98881	GATAGCTCCA	TGTATTAAAA	GATTATTAAG	TTTGAGGGCT	TATGATATGT	GCTTACATT
98941	TCTAAGATTT	TTTTTTTTTT	TTTTTTTGAGA	CGGAGTTTCA	CAC TTGTTGC	CCAGGCTGGA
99001	GTGCAATGGT	GCGATCTCGG	CTCACCGCAA	CCTCCGCCTC	CAGGGTTCAA	GCAATTCTCC
99061	TGCCTCAGCC	TCCCCAGTAA	TTGGGACTAC	TGGCAAGCGC	CACCACGCCT	GGCTAATTTT
99121	GTATTTTAT	TAGAGATGAG	GTTTCTCCAT	GTTGGTCAGA	CTGGTCTCGA	ACTGCCGACC
99181	TCAGGTGATC	CACCCGCCTC	GGCCTCCCAA	AGTGCTGGGA	TTACAGGTAT	GAGCCACTGG
99241	GCCCCGCCAC	ATTTCTAAAT	TCTTTATAAG	TATAAATTCA	TTCAATCTTC	ACCAAACTC
99301	AATGAAGTGT	GAGTACTATT	ATTATCATTG	TTTTACAGAT	CAAAACAAGT	AATACAGTCA
99361	CTTACTGAGT	TCTATACACC	TGGTAATTTT	TTTGTTTCGT	TGTTCTATCA	ATTATTGGGG
99421	AAGGGGTGTT	GAAATCTCTA	CCTTTAAATC	ATGTATGTGT	CTATTTCTCC	TTTCGGTTCT
99481	ATCAGGTTTT	GCTACACATA	TTTTGCAGTT	CTGTTATTTG	GTGCATATAC	ATTTAGAATT
99541	GCTTGTTTTT	CGTATTGGAT	TGACCCTGTT	ATCATTATGT	AATATCCCTG	TCTGTTCCCTA
99601	GTAATTTTCT	TTGCTCTGAA	ATATACTTAT	CTGATATATC	ATCCAAAAGA	CCACCAGGAT
99661	GGCTAAAGAG	TAGAAAGGAG	AGATTTACTG	GCAATACTAA	TTTGCAAGCC	AGGAAGAGAT
99721	GGTCCCAGAA	CCTGCCAAAA	TTACTCTCTC	TTTGGGGAGA	AGGAGCAGGT	TGTTTATTTT
99781	TATGCCTCAT	AGGCTATATA	TTACACAATA	GAGTCATACA	TATTTAGCAC	GTTTGGGGGG
99841	ACAGCTATAT	ATATTATGAG	GGGTGCCAAG	TGCATTACAC	ATGGATAAAC	ACGTGTAATA
99901	TACCTCCCAT	GTTCACTTCG	AGGTTAAATT	TTGGTTAAAA	TGAGGTAGAA	TTTAGGTCTT
99961	TACATCACAA	GGTGAACAT	AGGAACAAAG	TTTACGTGCT	GCCTCTAGCA	GCTGGCTGAA
100021	AATGGCTTAA	GGTCTACAAT	TACGTGTAAG	AATAGAATGT	GTGTCAAGGC	GGTCCTCTGT
100081	CCAATCAGAG	TTGTAGTGGA	CTGGACTGTA	AATCAGAGTT	AGGAGGGCTT	CTGATAGCTC
100141	CTATAGTTAA	GGAATTTAGC	AAGTGTGAGT	TTTTTGGTAG	TCTTTGGAAT	TTAGGAATTT
100201	GCCATGCCAG	CCAAGCCATG	AATGCTCTAC	CAGTAGGTAA	CTTTGTTTGC	TTAATCTTAG
100261	AGTCTGTCTT	AGTTGGTATA	GGGGCATCTA	TTTTGGTCTT	TCAGATCCCA	GATATTATTA
100321	ATACAGATAC	TCTTGCAATT	TTGGGCTGAT	GTTTATATGG	CTTATCTTTT	TTGCAGCCTT
100381	TAATTTCAAC	CTGCGTTATG	TTTATATTTG	AAGTGAGATT	CTTGCAGACA	GTGTACAGTT

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100441	GTTGTTTTTT	TTTTTTTTGA	GATGGAATTT	CACTCTTGTT	GTCCAGGCTG	GGGTGCAGTG
100501	GCACAGTCTC	AGCTCACTGC	AACCTCCGCC	TCCTGGGTTC	AAGGGATTCT	CCTGCCTCAG
100561	CCTCTTGAGC	AGCTGGGATT	GCAGCCATGC	GCCACCACAC	CCGGCTAATT	TTTGTATTTT
100621	TAGTAGAGAC	AGGATTCACC	ATGTTGCCCA	GGCTGGTCTC	GAACCTCTGA	CCTCAAGTGA
100681	TCCGCCAGCC	TCGGCCTACC	AAAGTGCTGG	GATTACAGGT	GTGAGACCTC	GCGCCAGCC
100741	AAACTGTTTT	TTTATGGGTG	TATTTATACC	ACACACATTT	AATGCAATTA	TTGATATCTT
100801	AGGGCTTAAG	TTCATGAAGG	GTAGTGTGGG	AACCATAGTC	TCTTGGCCCA	CTAAATGTTT
100861	GCCAGAAATC	ACTGACAAGG	CAGATTGATT	AATAGGTGAA	AAGGCATTTT	ACCTATTGTT
100921	TAACGTGTCT	ATGTGGGAGC	ATTCAGAATT	AATTACCTAA	CTTCCCAATG	AGTTATAGAT
100981	GCTTATATAC	CATTTTTAGA	TCACAGAAAG	AATTGGGGCT	TAGATTCTGG	TAAAACAGGT
101041	TATGGGAGGC	AAAAGAGGTT	TGGCTTGCAA	AGGTGGCCTT	GTTAGGTAGG	TGAAGCCTCC
101101	CTCAGAAAGA	ACAGATGGTA	AATGTTTCTT	TTATGATTTT	TAAGTGTCAG	ACTCTCAGTC
101161	TCTCCTGGAT	CTGGGGAAAG	GTATAGAAAG	GTGAGGAGGC	ATGGCTGCAT	TAATGGAGAT
101221	TCTCTACAGA	TGTAAAATTT	TTCCCATTTA	AGGCAGCTTT	GCAAGCCCAT	TTCTGCCTGC
101281	TGGCCAAGCA	GCAGCCATTT	CAAAATATGT	CAAAGAAATA	TATTTTGGGG	TAAAATATTT
101341	TGATTTCCCT	TAGATTGGTG	GCCTTATAAG	AAAAGGAAGA	GACACCTGAG	CTGACACACA
101401	TACCCTTGCT	CTCTCAACAT	GTTATGATGC	AGTAAGAAGG	CCCTCACCAG	ATACATAATC
101461	CATGCCCTTA	GCTTCCCAGG	TTCTAGAACA	GTAGGAAATA	AATTTCTTTT	CTTTAAAGT
101521	TAGCCAGTCT	GTGGTATTCT	GTTATAGTAT	CACAAAATGG	ACTAAGTAAC	TATATTATGA
101581	TCATCTTACA	TGACTGATCC	CTCCTACATC	ATACACATAC	ACAGGCCACA	TTTGGAACAT
101641	TGTTAGAGGT	TCCTCTACCC	AGTACAAATG	TACTACAAAT	TATATATGTA	TTTTTAAATT
101701	TTTGAGTATC	TTCAATAGTA	TATTTTCGTT	AACTTTTGTA	GTCAAAATGT	CATTATAACA
101761	TGTATTCAAT	ATGCATAATT	ATTAGTCAGA	TGTTTTACAT	TCTTTCTTCA	TACTAAGTGA
101821	TATGGTTTGG	ATATTTGTCC	CCTCTAAATC	TCATGTTGAA	ATGTAATCTC	CAATGTTGGA
101881	AGTGAAGCCT	GGTGAAAGGT	TTTTGGATCG	TGAGGGTGAA	CCCCCTCATG	AGCGCACTCT
101941	TCAGGGTAAT	CAATGGGTTC	TCACCTTGAG	TTCACAAGAG	ATCTGGTTCT	TTAAAAGAGT
102001	GTGACACCTC	CCCCATCTCT	CTCGCTCAGC	TCTCACCATA	TGATATGCCT	ACTCCCTCTT
102061	CACCTTCCAC	CATGATTGGA	AGTTTCCTGA	GGACTTGCCA	GTAGCAGATG	CCTGCACCAC
102121	ACCTCCTGTA	CAGCCTGCAC	AACCGTGAGC	CAAAAAAAT	TACTTTTCTT	TATAAATTAG
102181	TCAGTTTCAG	GGATTCCCTT	ATAGTAATGC	AAGAACGAAC	TAACACACTA	AGTCTATTTC
102241	ATATTTACAG	AATAGCTCAA	TCTGAAGTAC	CCTTTTTCAA	CTTCACAGTA	GCTACTTGTA
102301	GCTAGTGGGC	ACTGATTTGG	AGCGTGTTCA	AGGGTGAATT	GTATTATGCA	ATTAACAGAT
102361	TTTTTTTATT	GTTTTTCGAA	ACCACGAGGC	ATAGATTGTC	TTACTTTCTC	TGCTCCTGGT
102421	GTTGGAGTTG	TTATTGGGAA	ACAACCTTAT	TTCTCTTAT	ATTTATATGG	AATAAATAAC
102481	CCCCAATATT	TCCCTCCCA	ATATCTGCCT	TTTGATGTT	TTTTGAAGGC	AAGTGCCTAG
102541	AATTTACTGT	TTTTGAAGCA	CTTACTGAAA	GGATTGCCAT	CAAGTTGTTT	TGCTAATAGT
102601	ACATGCCAGG	CGCTTGTTGG	TTTGCTTAAT	TCAAGGTAAC	TTGGATGAGA	AGAAGAGTTT
102661	TTCTCATCCA	TGGCTCAGTG	GAGTATAGAT	TACTGATATT	GTGACTGGAT	GTACTCCTGC
102721	TTTCTAGTCT	GAGTTTTTGA	AGCTACCCTT	AATCTTGGTT	TCAATTTTAT	CTAGCCCTGT
102781	ACATATCCAA	GGCTCTTTCC	AAAATGGTCT	ACGATTTGTT	TAGGAAGTTA	GAATAGCTGT
102841	ACTTTCTGAA	CCACGGTTCC	TGACATTTTC	TGGACTTCAA	ACACATCCAG	CATTTTATCG
102901	AAGTATTTAT	CCTTCCTACT	TGGCTGGCTT	CTTCCTTGCC	TTCAGGTCTG	AATTCAAATG
102961	ACATTCTCCT	GATGAAACTT	TCCATCCTTA	TTCTATTCT	TTTTTCTTAT	CCCCTTCTT
103021	TATTTTCTCT	CACAGCACTC	ATCACTTATC	TCTACATTTT	CATTATGTAT	TTACCTTATT
103081	GTGCACCTCC	CACTACAAGA	CAAGTAGCAC	CGTAAGGAAA	CAGGTTGTCT	GCTTTTTCAC
103141	TGCTATGCTC	CCTGCACCTA	GAACACTCTC	TGGCACTTAG	CAGGTTTTCA	GTAATATAT
103201	GCTGAACATA	TAATGCTGGA	TATACATCTC	CCTCATGAAC	TCTCTAAATC	CTTCTAATTT
103261	ACATTGATCA	ATCTTCTTTT	CCATGTGCTT	TTGTATGATT	TATTGCTCAA	AATCTTTATT
103321	TTGTATGCAG	AACGTGCACT	GCTATTTAAT	CTTCATGTAC	GTAAGTCCTC	CCTTCTCTGA
103381	GTATAATCTC	TTCAGGGCAC	TATCTGAGAT	AACTTTTTAA	CATCTCCATC	ATGAATCTTG
103441	TACCTTTTCA	AAGAAAATGA	GCCAGTGATT	ACTGATGTTT	ACGGCTATTG	TTGAGGGTGA
103501	AGATCATTAT	AATTTTGAAA	AGGGAAGTTG	AATATTGTGA	AGGGAAAGAT	AACACTAGAG
103561	TCAGAAGACT	TGGGAGAAGG	CAAAAAACAA	ACTAAAAATG	AGCACTTTTA	GTCTCCTGAC
103621	AGTTTCTCTG	AATCAAATCC	ATAGTTCTGT	GACAGCGTTG	GCTTAGAAGC	AGATTTTTTT

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103681	TTTTTTTTTT	TTGAAATGGA	GTTTCGCTCT	TGCCCAGGCT	GGAGTGCAGT	GGCACGATCT
103741	CGGCTCACTG	CAACCTCTGT	CTCCAGGGTT	CAAGCGATTG	TCCTGCTTCA	GCCTATGGAG
103801	TAGCTGGGAT	TACAGGCTCC	CACAACCACG	CCCAGCTAAT	TTTTTGTTAT	TTTAGTGAAG
103861	ACTGGGGTTT	CACCATGTTG	GCCAGGCTGG	TTACGAACTC	CTGTTCTCAA	GTGATCTGCC
103921	CGCCTTGGCC	TCCCAAAGTG	TTGGGATTAC	AGGCATCAGC	CACCGTGCCC	AGCCAGGAGC
103981	AGATTTTTTT	ACACTCATGT	TTCTTTTTTC	TTCTGTCATC	CTGTTTCAGT	ATAAGCAGAC
104041	CACAGATAGA	AGTAGTAGAT	ACCTCAGAAA	TTCCTGGAAT	AATTAATCCA	CGTTCATCTG
104101	TACTCCATCT	GCTCCTATCT	CATGGAATAT	AAAAGGAAAA	ACACCAAGAT	TTCCTTAGGC
104161	AATCTGTCTT	GATTTTAGGT	TCCTCAACAG	GAGAGCCAGA	CAATGGCTGT	AATAATATTG
104221	TCCCGGCCAA	GGAAAACTT	CCCCTTTGCC	CTCCCAAGGT	TTATGGAAAA	TTACTGGCAA
104281	AACACAGATT	AACTGGAGAA	AAGGCATATA	TATTTATTTC	ATCACAATTT	TACAGGAGAT
104341	TTTAGAATTA	AGACTGAAAG	ATACAGGGGA	AATTGCCCCAT	TTTTATGCTT	AGGTTCAACA
104401	AGATAAACAG	CTGTATAGGG	TACGATCTAA	TGCTAACAGA	CTGAGTGGGG	AAGCCCCGCA
104461	AGGCTTGCTT	GTCAAGATTC	TTCTTGACCT	CTCAGTGCAG	CATTTCTTCC	TTCTGGTTAT
104521	AGGACAAGAC	TCTCTTTTAG	AATGGGGGGT	CTTATGACCT	ACAGGCAAAC	AAGGTAGGTT
104581	AGAGTAATAT	TTTAGGTTT	TATGGCTGGT	TCTAGGGAAA	AGGAGTTCTG	GTTTGTATGG
104641	CCTACCTTGA	GGAGGAATTC	TGGTTTCTAT	GGCTAGACTT	TGGGGAGAAT	GGGACTTACA
104701	GACAGGAAGG	CAGAAGGTGG	TCAGTGAAAC	ACTTTTATAA	TCATAATCCC	ATTTTGAGTA
104761	TTTCTGTGTT	ATGGAATGTT	TGTTCTCTCA	TTTCTGAAA	GATTCCAGAG	ACTCCTCATT
104821	CAGTGTTGTG	AAAAAGTTCA	GGAAATGCAA	CTCAAAAATG	TGCCACTTTG	TTACGCTGAT
104881	TTCTTTGAAC	TGAGGGCACC	TAGGAAACAG	TAAATTCAAG	GAAGGGCTTT	CGCTGAACTC
104941	TAATCAAAAA	TTTGAAAATT	AAAAAAAAT	TCAAAAAGGA	ATTTAGTTGT	TAAGATTAC
105001	TTCCCTGGGG	AATCTCATCA	ACCAGAGAAG	ATTAAGTGT	TCACAGGAGA	GGAGACTGGT
105061	GGTTAACACC	ATCTAAACAG	ACTTTGTGAC	AGCTGTCACC	TATTCCTTGA	AACACCCATT
105121	TATTTTCTC	CAAAATCATA	TACTCTCCCC	TAAGTTGCCT	ACATCCCCCT	TCTTTCTCCC
105181	TTATGAATCA	AGAGAGCTTA	TAAGCTTCTA	CAGTTCACTG	GGATTTGGGG	TATTCGCTTT
105241	TCTTCCCTCC	CACTCCCCCT	CCCCTTTTTT	TGTCTTTGAG	ACACAGTCTT	CTGGCTCTGT
105301	CGCCACGCT	GGAGTGTGGT	GGCTCTATGT	GAAGTCACTG	CAACCTCCTC	CTCTCGGGTT
105361	CAAGCGATCC	TCCACCTCA	GCTTCTCGAG	TAAGTGAAC	TACAGGCGTG	CACCTACCAAG
105421	CCCGGCTTTT	TTTTTTCTT	TTTCTCCCC	GTTTCTTTT	TGGTTATTTT	ACTGGAGACA
105481	GGGTTTCTCC	ATGTTGTCCA	CGCTGGTCTC	GAACGCTGTA	CCCGCCGTCC	TCGGCTCCCC
105541	AAAGTGCTGG	TATTACGGGC	ATGAGCCACT	GCGCCCGATT	TGAAGGACCT	CTTAAATATC
105601	TATTTAGAAA	TTGGTCGGAG	TCCACTCCTT	TCCAAAAACA	TGAGTCACAA	TCCGGGAAAA
105661	GCACGAGCGG	CTGAAAGTCA	AAATAACCAG	AACAAAACCT	CCACTCATGC	TTAAAAAGG
105721	TATTTTGACA	AAATCCTAAT	TCGGCCAATT	ATTATTAGTA	TTCAAGTCGA	AGGCTCGTCA
105781	AGCCAGACTG	GGGATTGGGT	CAAACATAAA	CCTTACACCA	GACGGAAGGA	TTACATGCAA
105841	ATGAAGGATG	CAGATTCTGA	TTTCCCATTG	GGTATTTGAC	ATTAGCCAAT	GGGAGAATTC
105901	CTCACAGCCT	ACCTCCAGTC	AGTATAAATA	CTTCTCTGCC	TTGCGTTCTA	ATGTAGTTTC
105961	ATTACATTTT	CTTGTGGCGA	TTTTCCCTTC	TTATCAGAAG	TAGTTATGTC	TGGTCGCGGC
106021	AAACAAGGCG	GTAAAGCTCG	CGCCAAGGCT	AAGACTCGGT	CTTCTCGTGC	AGGTTTGCAG
106081	TTTCTGTGG	GCCGAGTGCA	CGCCTGCTC	CGCAAAGGCA	ACTACTCCGA	GCGCGTCGGG
106141	GCTGGCGCGC	CGGTGTATCT	CGCGGCGGTG	CTTGAGTACC	TGACCGCCGA	GATCCTGGAG
106201	CTGGCGGGCA	ATGCGGCCCG	CGACAACAAG	AAGACCCGCA	TCATCCCGCG	CCACCTGCAA
106261	TTGGCCATCC	GCAATGACGA	GGAGCTTAAT	AAACTTTTGG	GGCGTGTGAC	CATCGCGCAG
106321	GGTGGCGTTT	TGCCTAATAT	TCAGGCGGTG	CTGCTGCCTA	AGAAAACTGA	GAGCCATCAT
106381	AAGGCCAAGG	GAAAGTGAAG	AGTTAACGCT	TCATGCACTG	CTGTTTTTCT	GTCAGCAGAC
106441	AAAATCAGCC	TAACAGCAAA	GGCTCTTTTC	AGAGCCACCT	ACGACTTCCA	TTAAATGAGC
106501	TGTTGTGCTT	TGGATTATGC	CGCCATAAAA	GATGTTTTTG	AGGTGTTTTT	AATGGCTTTG
106561	AGTGTGGCAC	TTTAGTAAT	TTGTCTGCA	GAAATTAGAT	CCATAGAAAC	CTCAGGAATT
106621	CTAGGTATGT	GGGAGAAGTG	CCATGCAGCA	CAAAACATGT	TTACAGGGGT	GATTCGCGTT
106681	AAGTTTCACA	CACAGCAGTT	ACTACATTTT	AGAGGAAGGA	AATTATACCC	ATGAGTGCAT
106741	TCCTAACTAT	CTTGAATGGA	AGTGTAAAAA	CCCGCATGCC	CCACACAAGT	TTGAATATGT
106801	CATACCATT	GCTGTAGCAA	TTAATGGCAT	ACACAATTGA	GAGCACACAC	ATTACCACTG
106861	AACATTTGAG	TATGTATTTC	CCAAAATGAG	CTTTTTTCCA	GTTTGGGGAT	GTTTTGCTTT

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106921	GTTTTGGGGT	GGAGTCTCCC	TCTCGCCCAA	GCTGGAGTGC	AGCGGCGTGA	TAACAGCTCA
106981	CTGTAAACCTC	GAAGTCGGGC	TCAAGCGATC	CTCTTGACAG	CCTTCTGAGT	AGCTGGGATT
107041	ACAGGCGAGA	GCCGCCACGC	CCGGCTAAGA	GCATTTTCT	AATTGCCAC	ACTTCTTATG
107101	CGACACCCAG	AAAAATACAA	TTTTAAATAA	AGCGCATATG	CAAATTTCCC	TAATCGTCTC
107161	CAATATTCTC	TGATTTCTTT	TTTATATTTT	AACTAGAAAC	AATTGGAGGT	TTCCGCGTTG
107221	CTTTGTGTGG	TTGTAAATTT	TAAGACTTCA	GGAAACTTTT	CCAGTACAAG	ACTTGTCCAC
107281	AGTGGATATA	GCAGCTAAGG	GGTTAACAAA	ATGACGTCAG	AGTAGCTACG	GTAATGGGCA
107341	GGAGCCTCTC	TTAATCTGCA	ACCAGGCACA	GAGATGGACC	AATCCAAGAA	GGGCGCGGGG
107401	ATTTTGAAT	TTTCTTGGGT	CCAATAGTTG	GTGGTCTGAC	TCTATAAAAG	AAGAGTAGCT
107461	CTTTCCTTTC	CTCCACAGAC	GTCTCTGCAG	GCAAGCTTTT	CTGTGGTTTT	GCCATGGCTC
107521	GTAATAACA	GACAGCTCGG	AAATCCACCG	GCGGTAAAGC	GCCACGCAAG	CAGCTGGCTA
107581	CCAAGGCTGC	TCGCAAGAGC	GCGCCGGCTA	CCGGCGGCGT	GAAAAAGCCT	CACCGTTACC
107641	GCCCGGGCAC	TGTGGCTCTG	CGCGAGATCC	GCCGCTACCA	AAAGTCGACC	GAGTTGCTGA
107701	TTCGGAAGCT	GCCGTTCCAG	CGCCTGGTGC	GAGAAATCGC	CCAAGACTTC	AAGACCGATC
107761	TTGCTTCCA	GAGCTCTGCG	GTGATGGCGC	TGCAGGAGGC	TTGTGAGGCC	TACTTGGTAG
107821	GGTCTTTGA	GGACACAAAC	CTTTGCGCCA	TCCATGCTAA	GCGAGTGACT	ATTATGCCCA
107881	AAGACATCCA	GCTCGCTCGC	CGCATGCGCG	GAGAAAGAGC	GTAAATGTAA	AGTTACTTTT
107941	TCATCAGTCT	TAAAACCCAA	AGGCTCTTTT	CAGAGCCACC	CACCTATTCC	AACGAAAGTA
108001	GCTGTGATAA	TTTTTTGTTG	TCTTAACAGA	ACAAATTTCT	AAGGACCCCC	CCGGAAAGCA
108061	TTAGACTATG	GTCTTAAAGT	TGATTAACAG	AAATAACGGT	TTGGTCAGTC	TTGCAGTGTA
108121	GGTTATTTCT	GACCTTATTA	AGGTGCTATT	TGGAGAGAAG	CTGTGTAAGT	CCACTATCAT
108181	TCAGGCCTCT	AGCTTGCTAT	GATTAGCATT	TGTTTAAACA	ACTTTGTAAG	AGTAAGGGAA
108241	AAATCTGGTA	AGTAGTTAAC	TGGCGCTTAC	TAGGCATTTT	TGCAAAGCTT	TGAAAAGATT
108301	AGAAAAATTGT	GTCTTGCGAG	TTCCAGTGTC	TTCTCAGAAA	TGCTTAGGAA	GATTTTCTCA
108361	GCTCAATACA	TAGTCCCCTA	GGTTTTCTCA	TATATTATAT	ATATATATAT	ATATATATAT
108421	ATATATATAT	ATATACTGTT	AAATTCATTT	GGCTGTAAAC	ATTAACCTGA	AATTTATTCT
108481	GGTGCAAAAT	GTGAGGCAGG	GATCTAACTG	GCTCTCATTT	TATCCATAGC	TAGCTACCCA
108541	CTTTAAATCT	GTCAGTCTGT	CGACCAAGCA	TAATTTAATC	CCTTATATAT	GAATTTTTAT
108601	ATGTGTGGCT	TTGCTTGTA	ATAGTCTATC	TGGTTGCATT	GCTTTGTCTC	CTCTAGGACT
108661	ATGCACCATG	ACATGCCACA	TTCTTTTTTT	CAGTACTTCT	TGCCTGTAGT	TATTAATAATC
108721	TAGAATTTAC	AAGTTTTAAC	CATTTTCTTT	CTGTTGATCT	TGCTTTTCGG	TTTTGGAGGT
108781	TGGGGATTGA	GTACTGGAAG	AAAATTTAGA	GGGATGGGAA	TACTGTACGC	AAACAAAAGT
108841	AATATTTACT	TTAAAATTTT	TATATTTTGT	ATTTTTTTAT	CATATAGCTT	TTACATCACA
108901	TTTTACAGAC	TAACTTTAGA	ACAACCACAG	AATGTCCAAC	ATTAAACTA	CTAATTCCAA
108961	AGACCTTGCC	TCACATTCTT	TTTTACAATA	AATATTTTTT	ACACCTAACA	TTCTTTCTTG
109021	GCCTACATCT	AGAATGTAAA	CTGATGTACC	ATACTAAAAT	CGCCTGACCA	ACTGTCAACA
109081	ACAACAAATC	ACACACACAA	AAGATCAAAT	TTGAATTGCA	TCGTTTACTT	AAATTCATTT
109141	GTGTTCCAGC	TTTTAATAAG	GCAGTTTTTG	GTTTATAAAG	TAATATTTGC	ATTTTAAAAA
109201	TTATGAAAAT	GAATATGTCA	GTTTGTTTTA	TGATTCGTTT	TTCTTGACTC	TTATACAAGC
109261	GACTCTAACT	GGCATAGACA	TTTGTTATCC	ACAGACAGTA	TAGATATGTT	AGAGATGCCA
109321	ATGGACTTGG	TCTATGCCAA	GGTGACTACT	CACAAGCTCT	GGGCCCAGCT	GAAGGTCAAG
109381	TATTTTTTTT	CCAGTTATAG	ATGTGCTGGA	TCTGATGTAT	AGCGCTTGAC	TTTTTATATT
109441	TTCTTTATCT	GTAGGAAACA	AATGTGTTGG	AGGTACTGGG	TCTGACGAAT	AGCATAAAAG
109501	AATAAAAGTTA	CATTACTGTC	TGAGGATCAG	ATGGACAGGG	GGTGGTAGCT	GAGTCCAGCT
109561	ATTTTCCACT	CCCTCACTTA	CATTCTTTGC	CCCCCTCCTCA	ACAGAACAAG	GATTCTGCTG
109621	TAACTCTTCA	TTGACAGTTG	ATATTTAAAA	ATTAACGAAT	GGATGAAATT	CTCATTTGTG
109681	AAAGAAAATT	TATTGAGCAT	TTTGTATTTG	TGAGTAGTGC	AAACATTTTA	ATATTATATT
109741	AAGAATCTAT	TGTTTTGTAT	TAGAGGAGTA	ATTAAGGAGA	GATTGGAGAC	AAAAAGGGGG
109801	TGTTGTTTGC	AGAATATACC	ATCCAAAAAT	AGACCACTGT	GGGATCAGGA	TTCTTTTGAG
109861	CTAAAGGCAC	TTCAAAAACA	GCATTCAAGA	AGGGAATTCT	TCTAACTTTT	TCTTTCTGAA
109921	AACAGGAGAT	AAAAGTTCCA	ATGTGAAAAA	TGCTCTGCTT	GTACCAGGTG	AAAAGACATA
109981	TTCTTCAGCC	CAGAGGCATA	GATGAGATAA	TTCTGCACAA	ACACAGCAGG	GAGTCATAGC
110041	CGAGAGACTT	CTATACACAA	ACAAACCTTG	TTAAAAATAAT	CATATATTCC	TTTAATCTCC
110101	TCATATGGTT	TACTTTCCCA	CAATTGCCTC	TCTTTAACTT	AATGTGAAAG	CATTTAGCTT

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110161	TTGCCATTTT	TTTGGGGCTT	CACTTTTTTTA	TGAGGGTTCT	CCTGTCCCAT	AAAATTTACA
110221	TTAAATACAT	TTGTATGCTT	TCATTCTGCT	AATCTGTTTT	ATGGCAAATG	AATTATCAGG
110281	TCCAGCTGGA	GACCCTAACA	GAGTAGAGGT	AAAATTTTGC	CTCCCTACAA	GATAGAGATT
110341	GTGTGCATTA	AATGTTGTTT	GTTCCAGTTT	GTTTCAGTTT	TCAGGCCTCT	GAGCCGAAGC
110401	TAAGCCATCA	TATCCCCTGT	GAAGTGCACG	TATGCCTCTA	GATGGCCTGA	AGTAACTGAA
110461	GAAACACAAA	AGAAGTGAAA	ATGCCCTGTT	CCTGCCTTAA	CTGATGACAT	TACCTTGTGA
110521	AATTCCTTCT	CCTGGCTCAT	CCTGACTCAA	AAGCTCCCCC	ACTGAGCACC	TTGTGACCCC
110581	CACCCCTGCC	AGCCAGAGAA	CAACCCCTTT	TGACTGTAAT	TTTCCACTAT	CTACCCAAAT
110641	CTTATAAAAC	GGACCCACCC	CATCTCCCTT	CGCTGACTCT	TTTCGGACTC	AGCCCGCCTG
110701	CACCCAGGTA	GAATAAACAG	CCTTGTTGCT	CACACAAACC	CTGTTTGATG	GTCTCTTCAC
110761	ACGGACGCGC	CTGAAACAGT	TTAACAGGGT	TTTTCCTGCC	CAGTCACAAC	AAAGTGATGT
110821	TATGCTGCAG	GCTGAAGTTT	ACAGCTAATG	CTGTTGAAGT	CTAAAATCAG	TTTTTGGTTT
110881	TTAGATTGGG	GTGAGATGGC	TAAGATTCTC	AGAGAAAAGAA	GTCAAGTTTG	GGGTGCATTT
110941	TTTCAGACTTA	AAAATTTAGC	AGTAGCCCTT	GCAGTTTTTC	CAATAGAAGT	GATTTACGAA
111001	TGTTTTCAGG	AAATTTAAAA	CAACAGTGAG	AAGCGTGTAT	GGAGAGTTGA	ACTACACTCC
111061	AGACTTGGCT	ATAGGAAAGC	ACGAATGCTG	CTATTGTATT	GCACCTTGGA	AAAGAGAACA
111121	AAGGAATATT	TTCGGACAAT	TTTAACATGT	CACATATGAA	AAGCTAAACG	GAATCTGTCA
111181	ACACCTTGTA	CGTTATTACA	GGCTGTGATT	TTAAAAAAC	AATCCTTACT	AATACATACA
111241	TAGTTGCTGC	TAGCAATATA	GTGTTGGGAG	TAAAAACACG	AAAATGAGAG	TTCAGGACAA
111301	TATCCCAACT	CTGAGCAGAT	TTTTTTAAGT	AGTAACATCT	AAAATTAAAC	CATATTATGT
111361	AATATTTATT	TCTTTTCCAC	AGTCTCTTCT	CATGCCTCGT	TCACATTAGC	TAATTAAAAAG
111421	TCCCTTGAGT	ATCATCATAA	CCCGATTTAC	AGATGAAGGC	ACGGTTGCAA	TGAGCTATCA
111481	CCCTCTTCTG	AATGAGACAG	TACAGTGTGA	AGGATAGCAA	AACTCCACTC	CCATCCTCTT
111541	AGGGCTCTGG	CTGGACCAGC	AAATTAAATT	AATGTAAAT	GGATTAACAG	GAGAAAGGTA
111601	TATGCATTTA	TTTAACACAG	GTTTTACGTG	ACACAGGTGC	TCTCATAAGG	TAATGAAAAGC
111661	CCAAAAAAG	CAGTTAGCTA	CTTATATAAT	GAATTGGACA	ATTAGTAAAA	TGTAAAAATG
111721	CGCTAAAGCA	AAGGGATTTA	GGCTAGAATA	TATAACTGTG	TAGAGAAGCG	CCCAGCAAGG
111781	GCTAGTGCAA	GGTTTGTA	GAATTCCTT	GGCCTCAGCC	TCCTATCCTT	GAGAAGAATG
111841	TTGCTTTTTT	TAAACTACAG	TGAGAACATC	TTTCATATGA	GAATTTCAAC	TACTGCTCTT
111901	AAGAAACAGG	TCAGCTTTCA	AGAAAACATA	AGGCCAGAGT	GATCTTTTCA	CGCTGCTCTT
111961	TTTAAGTACC	TTTGAATAGT	CAATATGTCT	TCAAGCACTT	GAAAGACTTA	AAAAGTTTAC
112021	CACTCCGGCA	TATTAGTGAA	AGCCCTTAAT	ATAAGCCCTT	ATTAAAATTC	TCAGTCGAGG
112081	GTATAAATTC	AGATTCAAAT	AGTAGTGTCT	TAAACGGGAG	GGAAAACTA	AAGGGATTAA
112141	AAAGTGAAAC	TATTGTGTTT	TCCCTCGCAG	TCCTTAGGTC	ACTGCCCTC	GAGGGGCGGA
112201	GCAAAAAGTG	AGGCAGCAAC	GCCTCCTTAT	CCTCGCTCCC	GCTTTCAGTT	CTCAATAAGG
112261	TCCGATGTTT	GTGTATAAAT	GCTCGTGGCT	TGCTTTCCTT	TCGCGTACCT	GGTTTTTGTT
112321	GTCAGCTGGT	TAGACATGTC	TGGTCGCGGC	AAAGGCGGTA	AAGGTTTGGG	TAAGGGAGGT
112381	GCTAAGCGTC	ACCGAAAAGT	GCTGCGGGAT	AACATCCAAG	GCATCACCAA	ACCGGCCATT
112441	CGGCGCCTTG	CTAGGCGTGG	TGGGGTTAAG	CGAATTTCCG	GTTTGATTTA	TGAGGAGACT
112501	CGTGGCGTTT	TCAAGGTGTT	TCTGGAGAAC	GTGATCCGGG	ACGCCGTGAC	CTACACGGAG
112561	CACGCCAAGC	GCAAGACTGT	CACTGCCATG	GATGTGGTTT	ACGCGCTCAA	GCGTCAAGGA
112621	CGCACTCTGT	ACGGCTTCGG	CGGTTAATCT	TTTCGTCAGT	TTTCTTCCAA	TGGCCCTTTT
112681	TAGGGCCGCC	CACTCCCTCT	CAGAAAGAGC	TGTGATTGTA	TTCTTTCGGA	TGGTAACATC
112741	TCAATGGCTT	TACTCGGCTA	TTCTGCCTAG	TATGTAGAAC	TATTATAAAC	CAGTTGGGAG
112801	AGACCAGGTT	GTTTGGTCTG	AGTGGCTGCT	AAAGCAGAAA	TCAGCTAAGT	AAACGAGGTC
112861	TCCGAGATAA	GTGAGCTATA	AACCTCAATG	CTATAGTTTT	GACATGTCAA	GCAACTTAAC
112921	GTGCAGCGCG	AGTCCGATAA	ATGAGTAGCT	CAGCTTTTTA	GTTTTAAAAA	CGAGTTGTGC
112981	GTTATTTGTA	CGAGAGCCTA	AGATGCTAGC	TGCCTGGAAC	TGAGTAGGTG	GATTAAATG
113041	GGTGTACAGT	CTGTTTTCCC	AGGCGTATCT	GACTTAACGT	CAGCAAAAGC	TGTACTTTTA
113101	GCTTCCCTGG	TAACACCTGC	CGTCCTTAAC	CGCCCCCTGC	CGGTAGCGCC	AGAAGCCTTT
113161	ACTTCCATTT	CTAGTTGAGC	TTGGCGTCCT	GCTGAGTGAC	GTCACCTCCC	CCTTCTGTGG
113221	AGTAGGACTG	GCGGTTAAAG	CTGCTTTGCT	ATTTTCAGTC	CTCAGGCTGG	AGGCTCCCTT
113281	AAGCAGGCTG	CCTACGCAGT	TCGTAAATTC	CCACTTAGTA	GACTAAGGGA	GTCTGTTTTA
113341	TAAATAAGGA	CTCAAATTC	TTCTGACTCC	GAGGTCCGTG	GCAGCAGCTA	TAAGATGGAA

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113401	GCCCCCTCTG	ATGTAAGATT	CTCAGATGAC	TTGCATCTTC	ACTGTACCTG	TCAACCCAAT
113461	AGTCTTCTAT	TCCTGCCTTA	AATTGTAAAT	TCCAAAACCTG	ATTTAATTGT	GAAAGTTTCA
113521	AACTGTACGA	CCTAGGAAGT	GTCAAAGTTA	GGTGACCAGA	TTTTTAGAAG	TCAGCCAAAT
113581	ATTCAGCATC	TTTGATTTAG	TAACAAATAT	ATTGATGGCT	ACTTCAGCAA	AAAAAATCAA
113641	CTTTGTTTTT	TGGTTACTTT	GCTAACAAGC	TTCTCCTGAC	AGGAGGATAT	AGTGAATAGG
113701	CAGTTGAATA	AGTGAGTTCG	GGTGAGAGGT	CTGAGCTGGA	GATAAAAAATG	TGTGAGTCAT
113761	CAGCAGATAA	ATAAATGCTG	AGACCAGATG	AGATGGCTAA	AAACTGAAAC	ATAATGTAGT
113821	GCAGCATTGT	TTGTAATAGT	AAATGAGTGG	CAACTGTAAA	GTTTTTCATCA	GAAAGGACTA
113881	GAGTGATCTA	TACATCCATA	AAATAGAGTA	TTTCTCTACA	CAGCCCTACT	AAAGAATGAG
113941	AAAGCTGTAC	TCCACTACAT	ACTCTGGTGT	ACTCTGGCTC	AGTTCTTGGA	CTCCTCTTTT
114001	CTTGGCTAAC	TCAACTGGCC	TCACCACTTA	CATGCTCTGT	GCTCTGTCAA	ATAGTTTGTT
114061	CAACAGAACA	CCACGGCCTA	GCTGTAAGTG	CCACGTAAAC	TTCTAGCAAT	GCCAAAGCCT
114121	GTGATAGTGG	CAGCTTCGGG	CTGTTTCTCA	TTCCCGGGAT	GCCTAACCAC	CTCTCCAAAT
114181	TCTATCAGTT	TGCTTCCACC	CACCTTCAAGC	TTCAGAACGA	AACATAGAGC	TTAAGAAATA
114241	TAGGCCCCGGC	AAGGTGGCTC	ACGCCTGTAA	TCCCGGCACT	TTGGAAAGCT	GAGCCTGGTG
114301	GATCACCTGG	GGTCAGGGGT	TCGAGACCAG	CCTGGCCAAT	ATTGTGAAAC	CCCGTCTCTA
114361	GTAAAAAATA	AAAAAATTA	GCTGGGCATG	GTTGCGGGCG	ACTGTAATCC	AAGCTACTCG
114421	CGAGGGTGAG	ACAGGAGAAT	AGCTTGAAC	CGGGAGGCAG	AAGTTGCAGT	GAGTTGAGAT
114481	CGCGCTATTA	CACCTTAGGCC	TGGGAGACAA	GAGTGAACT	GTGTCTCTAA	ATAAGTGT
114541	GCAATTATAA	ACCATCTCCC	TGACCTTAAA	TCTCTAGACT	CATATACAA	TGCATATTTG
114601	ATGTATCTAA	TTGAATAATG	GGCATCTCGA	ACTTGTCCAA	AATATGTTTA	TACGTAAACA
114661	CCAAGTCTGT	TCTTCTCTG	ATATTTGTCA	TGTCAATCAA	TAGAACTCCA	TTCTTCAAGC
114721	AGCTTGGGCC	AGGAATTGTG	CAATATTGTT	TGTCTGAGC	TTCTTACAAC	TTTCACCCAA
114781	TGCAGTCAGC	TCTGTTGAAA	ATCAATCAGA	ATACCTTTCA	TTGTTTTCTT	TGCTGCTTCT
114841	CTAGGAGCAA	GCTGCCATGG	CGGTTTGTCT	GAATGACCAC	AGTGACCCCA	AAGTGGTCTT
114901	TGTTTTCACT	TTTAATCCCC	CTGTCAATCA	GTTTTTCTCT	ATCCAGCATC	AACAGTGATC
114961	CTTTTTGAAG	GTATTATGTC	CACCTGTCTGC	TGAAAAGATT	CCACTGGCTT	TCCATCACCT
115021	TCATAATAAA	AACCAGCATC	CTTATCATAG	CCTACAAGTA	AGATGACCAA	CCATTACAGT
115081	TTGCCTGACT	CTCAGGGGTT	TCTCAGGGTG	TAAGACTTAC	AGTGCTGAAA	CTTAGAAAAGT
115141	TCCAAGCAAA	CTAGGATGAG	CTGCTCAACC	TACTAGATCT	GTAATCTGGC	TACCTCTGTA
115201	CCTCATTTCT	TTTCGAGTTC	TTTCTCTTCA	CTGACCTTGC	TGTTTCTGGA	ATGGACCAAG
115261	CATTTCAGC	ATCAGCACCT	TTATATCTAT	TCTTCTCTCC	TAGAAGGGTG	TTGTCTCTGGA
115321	TATCTGAATG	GCTCTAGATC	CTATTTCAAT	CAAGCCTCTC	CTCAAATACC	AGCCTTAAGA
115381	AAGAGACCTC	CCATAATCAT	CCCTTGTA	ATAAGCTTTT	CTGCTCATTT	AGCATATATA
115441	TATATAGTTG	ACTATCCTCA	ATAGCATATA	TATATAACAT	TTCCCCACCT	AGAATTATAT
115501	ATGTAATAAT	ATATTTAACA	AAAAATACAT	ATAACTAGAT	ATATTTTATT	TTGTGTTTGT
115561	TCTCTCTCCC	CCAACCTGGA	TATATTTTTT	GAAGGTAGGG	ACTTTGTTTT	GTCCAGAAAG
115621	TATCCCTAGC	ACCTTGAACA	GGGCTGACGT	TTAACAGGTA	GTTTATGGAG	GTTTGTGTA
115681	TGAAAGGATG	TGTGAATTTT	CTATGTAAGT	CTCCAGGCTC	TCCACTAAGC	CCACCAGAAT
115741	GCTAACACAA	TCAATTCCCC	ATCTCATTC	TTGACCTGCC	ACTGCCTGAA	GCAATCAGCG
115801	TGCAGTTTCT	CTTTAGAAAA	TCTGGGGGAT	AGTCTAGGGG	TTGCAAATTA	AGCAACATTA
115861	TCTTTGTTCT	GAACAAGGAC	TGCATGAGTG	TTAGGACTGA	AGAAGGCCCA	AGGTGGTGGT
115921	GGGTATGCCT	AAGATGAGTA	TGACATATGA	GCAATGCTAT	GAACATAGCA	ATGCTATGAA
115981	AGGCCAGGCA	AAACGTAACA	GGAGCATATC	GTGGCTTATT	GTTACAACGA	CTATACCTCC
116041	CATATGGGTA	ATCGATATCC	ACACACCCCT	CTACATTGAC	TCTGGAATTC	AGGAAAGGGA
116101	ATTAAAAATTT	TCTAACTTAT	GTACCCCAAT	GATTTCAACA	ATATCTGGCA	TATGAGATCA
116161	ATAAATATCT	TTAAAATACC	AACATAAGAA	GACATAAAAT	GACCCACCCCT	CCATACCAGG
116221	CTCATTTTTT	CTCCTCTGAT	TCCTGAAACT	ATCCAGAATG	CAGCTATGAA	TTCTCTCCAT
116281	TGTCAGTTTT	AAATTAAGCC	AAGCTGGGTA	CTTGTGTAAT	TCCTCAAGAA	ATCCTGGATG
116341	AAAACGTGCA	GGTGGAAAAC	AGGACCTCAA	AATAAAGAGA	CATCCATCAC	TGAAGCTAAC
116401	ATCGTGAGGC	TGAAATCAGT	CCTATAACAA	TGGTACCAAA	AAGAGCACAA	TGAGAGGCAT
116461	TTGTGAATAT	TTACTCAGAT	GAGAGTAAGA	TATTTCCCTA	TCAGCTAACC	TGAAGTTCAC
116521	ATCCCTTTTC	CAGCTGAGTT	CTGAAGCTAG	ATGTACTTAA	CTGGAACACA	TAAGTGCATC
116581	AGGAACATCC	TTTAAACTA	TGGCTACAAT	GGCTTGACTG	GACAAACCCC	AGGCTTCCAG

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116641	GTTTAGCACA	GGTGGCCCTT	CACAGACCAA	CATTGCCTAT	GCTACCAACC	TCATGTCCTA
116701	CCACCCTGCT	TGCATCATTT	CTCTCTCTGC	ATATATAAAA	ATATATGTGT	ATGTATATAA
116761	TCAGCTTTAT	TGATATTTAA	TATACCACAA	AATTTGCCCA	CTTTAGGTAC	AGTTCAATGA
116821	ATTTTACCGT	GTTTTCTTAG	TTGTACAACC	ATCATCACAA	TTTAATTTTCG	GAATATTTCT
116881	ATCACCCAAA	TTTCCATTTT	TGCGTAAAGG	GGGAAAAAAA	AAGGTAACT	GCTGAAGGCC
116941	GCGGTAACAC	TGAAAAAGGT	GCCTTTTCTC	TCTAAAACAG	ATTTTAATCT	CCCCTGAATT
117001	TAGTGTCCCTG	GGTATTCCAG	GAGTCTGAAT	AGGGTTTCAA	TTTTTCAGGGT	CTTTTTTAATA
117061	GAGTAAAAC	GTATTGGTGG	CGATAAATTT	AGTATTGCTC	TCAGTACATG	ATTGAGGGAT
117121	ACTTAAATGT	CTCTGTGATT	TTATTTTCATA	ATCGCTAAAA	GATGGTTTTT	TTTTTTCCTA
117181	AAACAGGGTT	TTTGTTTTTT	CTCAATAAGC	TTCTTAGCTT	CCCCTCCGGC	TCCCTGGCTT
117241	GCCTCAGGAA	ATATTAGCTC	ATCAGTTCTG	ATTGGTTGAC	AGCTACGAAT	GGCCCTCAT
117301	GATTGGGCAG	CGCTTCTTTG	TCCCTTGGAA	ACTAATACAA	ATTTTAAACA	CTACTTTTTT
117361	TCCACTCTTT	CTTCAGAGTT	GGAATATCGT	TGCTCCCTTA	CCCATATGTA	GTGAGTGGAG
117421	GGCAAACCTG	GAGTTCCCTT	AATCTTCTCT	TTTATAGGATG	TCAGCTCAGT	ATCATTCATC
117481	TTAATTACAC	ATTGAGCTTC	TTGACTTAAT	GGATACAGCT	CTTCTTTTGT	TTAGTTGGGC
117541	GGCCCTGAAA	AGGGCCTTTG	GTTTCAGAAAT	GCAAGCTGTG	GAGAAATCAG	CAACCTTAAC
117601	CGCCAAAGCC	ATAAAGGGTG	CGTCCCTGGC	GCTTAAGCGC	GTAGACCACG	TCCATGGCAG
117661	TGACTGTCTT	GCGCTTGGCG	TGCTCCGTAT	AGGTGACAGC	GTCACGGATC	ACGTTCTCCA
117721	AAAACACCTT	GAGCACCCCG	CGAGTCTCCT	CGTAGATCAG	ACCAGAGATC	CGCTTCACAC
117781	CGCCACGCCG	GGCCAGACGC	CGGATGGCCG	GCTTGGTGAT	GCCCTGGATG	TTGTCACGCA
117841	ACACCTTGCG	GTGGCGCTTG	GCACCCCTCT	TACCCAAACC	CTTCCCGCCC	TTACCACGTC
117901	CAGACATGAC	TTCCCAAGAA	GTGAACCAAG	AGCAAGTGAG	AGAATAGGAA	ACCGATCTTT
117961	ATATATCTAC	GTTACCCCTG	CCCCCACCTC	CAGCGGACAC	AGAGACTGAA	AAGCGCGCAG
118021	GCGGGAAATG	TGACGCCTAC	AGTCCGCTCC	TTTAACCCCT	CCTCCAAGCC	CCAGGAAATG
118081	GCGGGAGCAG	CGATTGGGGG	AGGGTGGGGA	GATGAGGGTG	GGACCAAGCA	GGCTTGACCA
118141	ATGGCCTTTA	TTTTCTTAAC	AGAGCTACAG	GCTTTGAGGA	ACTGGGTAA	GAATTAAATG
118201	TAAACCCATT	CTGACTCCAG	AATTATTTTA	AGTCGAACCT	TTTTTTTAA	CGAATCTCTC
118261	TGTCGCCCAG	ACTGGAGTAC	ATTAGAGCCA	TCTCGATTCA	CTGAAACCTC	TGCCCTCTCAG
118321	GTTCAAGTGT	TTCTCCTGCC	TCAGCCTTCA	GAGTGACCT	GGGATTACAA	GCGCTCGCCG
118381	TCGCGCCCGG	CGTGTTTTTG	TATTTTTCGT	AGAGACGGGA	TTCGGCCATG	TTGGCCAGGC
118441	TGATCCCGAA	CTCCTGATTT	CTGGTAATCC	GCCCGCCTCA	GCCTCTTAAA	GTGCTTGAAT
118501	TACAGGCGTG	AGTCACCGCG	ACCGGCCGAA	ATCGATTGGT	TTTGAAGCCT	TCAGTAGCAT
118561	TAAAACGAAA	AGTGCTCCCA	ATGCATTCCC	TTTTGTCTTA	AATTGGTTTC	TTACAGCTAC
118621	TTTACTTGAA	AAGGTGGTGG	CTCTGAAAAG	AGCCTTTGCT	TGGACCGTCA	GAGAGACCAC
118681	AGTAATCACG	CCCTCTCTCC	GCGGATGCGG	CGGGCGAGCT	GGATGTCCTT	GGGCATGATA
118741	GTGACGCGCT	TGGCGTGGAT	GGCGCACAGG	TTAGTGTCCT	CAAATAGCCC	TACCAAGTAG
118801	GCCTCGCAGC	CCTCCTGCAG	AGCCATCACA	GCGGAGCTCT	GGAAACGCAG	GTCTGTTTTA
118861	AAGTCCTGCG	CAATCTCGCG	CACCAGGCGC	TGGAAAGGTA	GTTTACGAAT	AAGCAGTTCA
118921	GTGGACTTCT	GATAACGGCG	GATCTCGCGC	AGAGCCACGG	TGCCCCGGCCG	GTAGCGGTGG
118981	GGCTTTTTCA	CGCCGCCGGT	GGCCGGAGCG	CTTTTGCGGG	CTGCCTTAGT	GGCCAACTGT
119041	TTGCGTGGCG	CCTTGCCACC	AGTAGACTTC	CGAGCAGTTT	GCTTAGTGCG	AGCCATGACG
119101	GAAAAACAGC	ACAGCGGAAC	ACCCAACACT	AGCGCAAATA	CGCCCATGAG	CTGCTCTATT
119161	TATAGTGTGT	AAAGTGCAGT	GATTGGATGA	TAGAAGACGC	TAAATATGAC	GTTACACACT
119221	CTGATTGGTC	TATCTTTAAG	CCAGCAACAA	TCGTGCAGTT	TCACCGGCTA	CTATATTCTA
119281	TTCCAACCTCT	ACAGATGATT	ATTTAAGTGG	TATTTTATTA	CTACTATTAT	TTTATTTTAC
119341	TTTTTGCTTTG	TTCCCCAAGC	TGGTCTTAAA	CTTGGGCTCA	AAAGATCTTC	CCGCCTCAGC
119401	ATCCAGAGTA	GCTGGGATTA	CAGGGGAGCC	CCACTGCGCC	GGCTTGGACT	TTAATTTTTT
119461	AAACTTGTCC	TCTTCTACAT	CTGGTTTTCA	TAACCTGAAG	GCTGTGTTTA	TTTTCATATA
119521	AACAAGGCAT	TGATTCCAAA	GGTATTATAA	TTCCCCAATT	CCGTATAACC	TTTACGCTCT
119581	TAGGAAAAAA	AAAAAAGAGG	GAATACTGCT	CACCTCCTCT	CCGGAAATGT	CCGGAAATGT
119641	ACCCTTTACG	GGAATTTCTG	AAACCTTTCA	CAAGAATTGG	ATTCTTTTGT	AATGCTTTAA
119701	TTGACTTAGG	AGTGTTATTG	AAATCTACAA	AGCATCTCAA	ACATAGTAGG	ATTACACTAT
119761	TACTCAGAAA	CATTTTCTAT	GAGACGTCTT	TCTCTTGATT	ATGCTCTTTG	AATCCTAAAC
119821	TTGCAGCGTT	CTGCAGCTTT	TGTTTTCTAA	AGCCTAGGTG	TACTCTGCCA	GTCACAAAAT

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119881  GGC GTT TCTC CAG CACT GCC GCCAGGTACC ACCAGCTGGG AGTTGTTCTT CTTGCGGAGC
119941  AGGAGGTGGA CTTGGCCCAA GAGAACTGG ATAGTG GTTC GCAAGGAACA TAATTTAGCA
120001  TTGCCAAGAG CTAATGCAAT CATT TTGAAA ATCTCAAAC ACTGAAAAGT GGATTGTGAC
120061  CTTTTTAAAT TCACAAGAGA CAGGCCACAT TCTATCTTTT GATTGGTTTA GGCTATTTTC
120121  TTGAACAGCC ATTTAGAAAAG CAGATCTATC ATCCTTCATT TGCATGGAGC GTTCCCATTT
120181  TATTTGAAAC CAGTTTAACC CAATAGAAAA AAGGGAGGCA GAACCCATTA TTTAAAGTGG
120241  AAAC TCCTGA ATCAGATAAT TAGGAGTATT TCCTTTTCAA AAGTTGCGTT TTTTCAGATA
120301  CCTCGCTTAT TACACTAAGA AAGGTTTATA TCTTTCACAA AGGGTTTACT TACAAAAATC
120361  TTCCAATTTT GTATACCTGT GTTTCATAAC TGACTAGCCG TCAAACCAAG ATGTAGAGTT
120421  TCCAACCGTT ATTTTCCAAA TTTT TAGAAA TTACGTGAAA TATTTGAATG CATGCCTTCT
120481  CAATAAAATG GGACGTAGGA AGCACTGGTG CAGAAGATGG GTACAATACT TATCTGGGAC
120541  CACTCCATTA TTTGGTTGGC ACGTTGTTTG AAGAAAAAGG GGAAAAGCTC AGGTTACTTA
120601  GCATGGTTCTG GACTTATTTG AAAACTACCA CAGCAGGAGC GGAAATAAGA CCGCATTACC
120661  TCACTCTCTG CTGTGCTGTG CTAGGGGGTT ATCCAGAATA GGATTGTAGA AGTGGATGTC
120721  GATTTAATAG TTTTTTATTC TCCCATTAGC TGAGTCTCTG ATTGGCAATG TGAGATCGTT
120781  TTAGCTTATT GATACTTTGA AATGCACTTA ACAGCCACAA ACAAGTTAAA GGGTTGTTAC
120841  CATAAAATCT TATCCCCAGG GTGTGCTTGC ATTTATCACC CGTGT TTGCT TTCACACTAA
120901  GTGGACTTAA CTCCCCAGCA GAATGCCTGT CAGGGAACCG GTTTCGTGGA CCGAGCATTT
120961  AACGCCTTTC GCAGGCTTGT GAGGCCATA AATATTTGTT GAATAAAAGA ATGAGTTGAC
121021  CATGTCATGG TGCGCTGATT GCGTGTGCTG ACATGGAACA CAGGTTGTAA ACCTTAATAC
121081  CAATTTGGGG CATGTTGTAT GGATGAAAAG GGCATTGGAA ATTCTGAAG TGCATCCAC
121141  ATTGGACTGT GGAAATAAGT TGCAAGTGCA GAAACGTTTC CACTTTGCA GTTTGAGTAT
121201  TAATTGCAGC GTTTGTGAAT TCTGGTGTG TCTACGATTC ATTCTTGT TT GACGTGAAAG
121261  GTATTGCGGA GACACATCGC TCTAAAACAT TGCCAGAAAA TGTAATAGAG TTGATGACAA
121321  CTGGCCCTAA CACGGCCTAA AACTCGCACT TTTCTCTCCC TCCGCAACTA TTCAAAACAC
121381  TGTATTTTAC ATTTCTTGCA AATTA AAAAC TAACATCTCT GGCAACGGAC CTCTAAAAAT
121441  TTCTAATAAA ACTCCTCGGA TGCTTGTGGC ACTGCATTTG TAAACCGCCC CCTCTCAACC
121501  TACTCCCTAA AAAAGAGCTG CTTTTTGAGA GAGAAGCGGT ACCCTCTGAT GTTACTGGGC
121561  GGCAGTCTGC CTACAATTTT CTTCAATG AGGCAACCAG AGCGGCTTTT TCTGTGTGTT
121621  TGCTGCGT GAGGGGAGCA GGACCATAGG CCTAGAGGC CCCAGCTGC CTCTGAGAC
121681  TGGGCGAAAC CCTCGGCAGC GCGCAGGGG CGCTAGGGCG CGAGGGGCGG CCACTGACGG
121741  GCACCAATCA CCGCGCAGTC CCACCCTATA AATAGGCTGC GTTGGGGCCT TTTTTTCGCA
121801  TCCTGCTTCG TCAGGTTTAT ACCACTTTAT TTGGTGTGCT GTGTTAGTCA CCATGTCTGA
121861  AACAGTGCCT CCCGCCCCCG CCGCTTCTGC TGCTCCTGAG AAACCTTTAG CTGGCAAGAA
121921  GGCAAAGAAA CCTGCTAAGG CTGCAGCAGC CTCCAAGAAA AAACCCGCTG GCCCTTCCGT
121981  GTCAGAGCTG ATCGTGCAGG CTGCTTCCTC CTCTAAGGAG CGTGGTGGTG TGTGTTGGC
122041  AGCTCTTAAA AAGGCGCTGG CGGCCGAGG CTACGACGTG GAGAAGAACA ACAGCCGCAT
122101  TAAGCTGGGC ATTAAGAGCC TGGTAAGCAA GGAACGTTG GTGCAGACAA AGGGTACCGG
122161  AGCCTCGGGT TCCTTCAAGC TCAACAAGAA GGCCTCCTCC GTGGAAACCA AGCCCGGCGC
122221  CTCAAAGGTG GCTACAAAAA CTAAGGCAAC GGGTGCATCT AAAAAGCTCA AAAAGGCCAC
122281  GGGGGCTAGC AAAAAGAGCG TCAAGACTCC GAAAAAGGCT AAAAAGCCTG CGGCAACAAG
122341  GAAATCCTCC AAGAATCCAA AAAAACCCAA AACTGTAAAG CCCAAGAAAG TAGCTAAAAG
122401  CCCTGCTAAA GCTAAGGCTG TAAAACCCAA GGCGGCCAAG GCTAGGGTGA CGAAGCCAAA
122461  GACTGCCAAA CCCAAGAAAG CGGCACCCAA GAAAAAGTAA ATTCAGTTAG AAGTTTCTTC
122521  TAGTAACCCA ACGGCTCTTT TAAGAGCCAC CTACGCATTT CAGGAAAAGA GCTGTAGTAC
122581  ACAGATGAAA TCCCCCAAGC AAATGCAACA CGCCCTCAAT TATATTAGAA TCACTTGGAG
122641  AGTCGATAGA ACTTTAACAT AGCCTCATCT AGTAAGAATT TACTACTCAA TCTATCAAAG
122701  ATAGCAAGGT GAATTCAAAT GCACCGAGTT AAAATCGAGT TTTAAAGTCA CCTGGGTTTC
122761  GG TAGCCGGA AGTCCCGCGT CTCACGACTC CAAGCTAATT AGTCATAACC GTATTGAACC
122821  AAGGTTGAAG CCCAGTCCCA GGCTTGAGGC TTTTATTAT ACAAGGTTAA AGTGGGGATA
122881  TTGCGTTTTG GGGTCAATAT TGCTAAAGTA GCATTTTCCG AAATTGGGTG GTCCTAAGAA
122941  ATGCTTCTGG GATAGTTGGC AAAATATATG GCTTAACCAC GCCCTCTCCA CAGGAGTGGC
123001  TAGCGAGCTG TCTGTCCTTG GGAAGGACGG TGACCCTGCT GGCGTGGCTG GCGCCACGT
123061  TGGCGTCCCT TGAAAGCCCC GCCAGGTAGG CCTAGCTCGC TTGCTTTCTG CAGCGCCATC

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123121	ATGACAAAGC	TTTGAAACGC	AAAATGCTTT	CTTTGTGCAG	CGCCTTACCA	TGGGTGCACT
123181	TACGGGCTGT	CGACTTGGTT	TAGGCCCTTG	TCAGGACAAA	GGAGCTTAGT	TTGTTGGAGT
123241	TTTAGAGCTG	CAACCCAAAA	TCCCTTGCTC	GGTTTCTCTG	TTTTTAGAAA	CGGAAGCGCC
123301	CTGATTGGAT	ATTTGAAAAT	TACTGTGCTT	AACTGGATCG	TGTTTCATCA	ATCGTGCAGG
123361	ATTTTCAACC	CTGGTGGAGC	CCACACATTC	AAAACCTGAAG	ATCCTTTTCT	CAGAACTGCC
123421	CCTTTAAGCT	TTTGCAATTT	TAATTCTGGG	GGTCAGATTT	TAATAATTGG	ACTTTTTTGT
123481	TTACATCTGA	CAAGAGTATA	TGATGAGCCA	AGTTTACTCA	CTTTTACTTA	GTGCAGTTCA
123541	ATTCTAAAAG	TTTATTTTGT	CGTGTGTGCA	TATGAGTTAA	TAATCAGTTG	TATTTTTTCAA
123601	ACGGTCTTTT	TTCAATTGTT	TTGCTTAGCT	CCTTCCATCG	TCTAAAGTCA	GGGATACAGG
123661	CACATCACAT	CCCTGTTCCT	CCTTCCTCAA	ACTAATATGT	AGCTACCTAG	GTTTATCCTT
123721	TAAACAAAAA	ATTCTCACCT	ATTTTTGTGA	GAAATATACA	TGTTTTTCTT	TGAACTAAGT
123781	ATTTTACATA	CACCTATCTA	TATACATGCA	TACTTGTGGT	TTTGTTTTTT	TAAAAAATAA
123841	AAAAAAAAAA	CACGTTATCT	TTTGAGACTG	GGTCTCAGTC	TGTTGCCAG	ACTGGACTGC
123901	AGTGGCATAA	TCACAGCACA	CTGTAACCTC	CAACTCCTGG	GCTCAGGCTA	TCCTGCAGCC
123961	TCAGCATCCG	GAGTAGCTGG	GATTGCATGC	ACGCACCACC	AAGCCGGGCT	TTTTGTTTTT
124021	ATTTTTTGTG	GAGACAGTCA	CACCATGTTG	TCCAAGCTGG	TCTAGAAATG	GCCTCAAGTG
124081	ATCATCGACC	TCCCAAAGTG	TTGGGATTAC	GGTCACTGTG	CCTGGCCTTG	TATGCATAAT
124141	TGTTTTGTCT	TTTGATTAGG	GTTATTAATT	TAAAAACAA	AGCCTGGACG	CAGTGGCTCA
124201	CATCTGTAAT	CCCAGCACTT	TAGGAAGCCG	GATGGGCAGA	TTACTTGAGC	TCAGGAGTTC
124261	AAGACCAGCC	TGGGCAACAT	GGTGAAATCC	CATCTTGACA	AAAAATACAA	AAAATTAGCA
124321	AGGCCAGTG	GCACGCACTT	ATAGTCCCAG	CTACTTGGGA	GGCTGGGGTG	GGAAGATGAC
124381	TGGAACCTGG	GAGGTAGAGG	CTGCAGTGAG	CAGAGATCGT	GCCACTGCAC	TCAAGCCTAG
124441	GTGACAGAAT	GAGACCCAGT	CTCAAACAA	AAATAATAAA	AATTTTTTAC	AACGATGTTA
124501	TATACACTTC	TGCATGTTGC	TTTTCTCTTA	ACCAAACCTT	TCTAAAACCC	TGTCATGAAA
124561	AAAGAAATCC	TTCACATGGA	ATAGCATAAG	TTATTCATCC	ATTTCTTATT	GATAAGCATT
124621	GATGTTTCCA	GTTACCACTG	CTGAACATGG	TGCAATTGAA	TAGAATTCCA	GGGCTGAGAT
124681	TGCTAGGTTT	TAGGTTGTAT	TTTATTATT	TATTTATTTA	TTTATTATT	TAGACAGAGT
124741	CTTACTCTGT	CACCATGGT	GGAGTAGATT	GCCATGACCT	CAGTTGCAAC	CTTTGCCTCC
124801	TGAGTTCAAG	CGATTCTCAT	GCCTCCGGTC	TCCCGAGTAG	CTGGGATTAC	AGGCACCTGC
124861	CACCAGGCCCT	GGCTAATTTT	TGTATTTTTTA	GGAGAGATGG	GGTTTCACCA	TGTTGGCCAG
124921	ACTGGTCTCA	AACTCCTGGC	CTCAAGTGAT	CTGGCCACCT	CGGCCTCCCG	AAGTGCTGGG
124981	ATTACAGGTG	TGAGCCATGG	CTCCAGACCT	GGACTTTGTC	TTCTGTTTCA	TCAGTCCTTC
125041	TGTTGGTTCA	AGCACAGTAT	CACACTGAAG	ACTGATGATT	CTATATAAAT	ATGGTAAAGA
125101	CTGTACACCC	TAAGTGTCT	TATTTTTTAA	TTTTAAGGCA	ATTTTAGATT	CCAGCTTTCC
125161	AAAGAATTGT	GGAATGCTTA	GAGCTAGAGA	AGCCTTGGA	GTCATTTAGT	TTTTGTTTTG
125221	TCAGAGAAAA	TTCTGTAGAG	ACTCTGTCCT	GCTCTCACTG	AATACCATCC	CATAGTACCC
125281	CCCAACAGCT	TTAAAGGGCA	ATAATACCTT	ATGGACAGTA	TGCTTTTCCT	CAAATATATT
125341	CTAAGCCATG	GTCAATGCAA	AAGAGTGAGA	AGGAAAGTAG	AATAAGTTAT	CTAAGAATCA
125401	GTGGGTGCTC	TCTTTAAACT	GATTTATCAC	TCCCCCTTCC	AACTCTCTT	GAAGGTCACT
125461	CTGCCTCCCT	TTCTACATAA	GAACCTCTAA	CTCCAAGGGA	GGAAGGTAAG	TTATTCTTAT
125521	TCCTTGCTTA	GAAAAAGAGA	AAATAGGTTT	GGTAAGCATC	CGCTTCTGTC	TACCATTCTC
125581	TGTGTTTCTG	TGTTTTTTTAT	AGGATCATTC	AATTATTGGT	TGGCTCTTGA	GAGGGAATGC
125641	AAGGTTCAAG	GACACAAGCC	TAGATCTTGC	CTGTATAGAA	CCTCATGATG	TTATGCTTCT
125701	CTAAAATGAG	GCCTGGAGGA	GACATGTTGA	AAGTGACCCA	TAAATCTGCA	GTATCTCATG
125761	TCTCTCAATG	GGGACAAGGA	GTACCATGGG	AAATAGCATT	AGGTCAATGA	CAGTAACAAC
125821	TCCCAGGTGA	GTTGATTTAT	TCTTTTATTT	ATAAAGTTGT	TAATATGCTA	CATAGTCCCT
125881	AATTTTGCCA	CAAATAGTCA	TTATTTTAAT	TTCATATTTT	ACTATTGATA	AATGAAGGAA
125941	AAAATGAGTA	GCAGTTAAGC	AGTCCATAAA	CCTACATATA	AAGCAAATTG	GAGATTTTAA
126001	AATTGATTCT	GGATGCTTAA	AATCCTTCTC	ATTGAAAAAA	AATTTTCGTAT	TAGAAGATTT
126061	CAACATTCTT	TAAACTGAGA	AGCATAACAT	ATAAACAGAA	AACCACAGCA	AAACAAAAAT
126121	GCAAAGCTCA	ATAAATGAAC	ACAAAGTGAA	CACCATAATA	ATTGCCACAC	AAGTAAAAAA
126181	ACAGAAAATC	AGCCAACCTT	CCCAGAGCTG	CCTGATGCTT	GCTTCCAGTC	ACATTATCAC
126241	TCCATCTGCC	CTAAACATAA	CCCCTATTTT	GATTTCCAAT	GCTGTAATTT	AGTATGCCTG
126301	TTTTTGAAAC	ATATAAAATG	GAAATAAAAC	AAATGTAATC	CTATGTACCT	GACATATTTT

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126361	ACTCCAGAAC	ATTAGGTTTG	AATAGATTCA	TCTGTGTTGC	TGTGTATAAC	TTTAATTCAT
126421	TTTTATTGTT	ATGTAATATT	CCATGTTATG	AGTGCAACAA	TTTAGGTGTC	TACTGTTGAT
126481	GCATATTTGC	TTCCCTTTTT	CAGCTAATAT	AAACAATACC	GTGAATATTC	CTGTGTATGT
126541	GTCTTGGTAT	ATATAGGAAT	ACATATTTTG	TTTGATATACC	TAGGAGAGGA	ATTGTTGGGT
126601	CAAATGCTAA	ACTCTTTTTG	AAAGTGGTGA	TATTAGGTTT	ACATGCGATG	AAATGAAAAT
126661	TAAAACCAACA	GTTATAAACA	GCATGGATGA	ACCTCACAAA	CCTAATGTTG	ATGGAATCTA
126721	GCTGGGAATT	CCTGTTCTTC	CATATACTTC	CCAATATTTT	TTTCCAATTA	AAATTGTTAA
126781	TCTTTTGAAG	ATGTTATCCA	TTGTGGCAGA	TGTGCAGTAT	TATCTCATT	TGGTTTTATT
126841	TTACATCTTT	TGCCCCATTT	TTCTTAATTG	GATTGTATAT	CAGTCGACTT	GGGCTGCCAT
126901	AACAAAAATA	CTAGACTAGG	TAGCTTGAAC	AAAAGGAATT	TATTACCTCA	CAGTTCTAAA
126961	GGCCAGGCCA	GAAATCCTAA	ATTGAGGTGC	CAAGAGATTC	AGTTTCTAGT	GAGGGCTCTC
127021	TTATTGACCT	GAAGATAGTT	GCTGTCTTAG	ATTGTTTGGT	GCTGAACAGA	ATACCAGAGA
127081	CCAAATAATT	TATAAAGAAT	ACAGATTTAT	TTCTTACAAT	TCTGGTGGCT	ATAAAGCCTA
127141	TGGTCGAGGG	GCCCACCTCT	GGCAAGGGCC	TTCTTACTGT	TATGGCAGAT	GTGAGATGTC
127201	ATCTCATATT	CAAACCACAG	CAGTCGCCCT	TTGTGTCCTC	ATGTGGCCTC	TTCATATGCC
127261	CATAAAATGA	CCTCATGTCT	CTTCCTTTTC	TTATAAGGAC	ACCAGATCTA	TCAGACTACT
127321	GGCCTACTCT	TATGACCTCA	TTTAACCTTA	AATATCTCCA	TAAAGTCCCA	AAATCCCTAT
127381	TCCCAATAT	AGGCACATTG	GGTGTTAGAG	TTTCAACATC	AATTTTGGGG	GAACACAATT
127441	TAGCCCAAAA	AGATTGTGTT	TTTTCTTGTT	GGTTTAAGAT	AGCTGTCTTT	TTGTCTTTT
127501	TGTCCTTTCT	TTTTTTTTGA	GGTGGACTCT	TGCTGTGTCA	CCCGGTTGG	AGTGCAGTGG
127561	CGCTGTCTCA	GCTCACTGCA	ACCTCCACCT	CCTGGGTTCA	AGAAATTCTC	CTCCTCCCAA
127621	GTAGCTGGGA	CTACAGGTGC	ATACCACCGC	GCCCTGCTAA	TTTTTGTTAT	TTTGATAGAG
127681	ACGGGGTTTC	ACCATGTTGG	CCAGGCTGGT	CTCAAACTCC	TGACCTCAGG	TGATCCACCT
127741	GCCTCGGCCT	CCCAAAATGC	TGAGATTACA	GGTGTGAGCC	ACCAAACCTG	GCCTGTCTTT
127801	TCTGTTTTAA	GTTTTTAAAT	TTTGCTCAG	AACCTTTTAT	CCATTTTATG	TGTTGCAGGT
127861	ATTTCTCTCT	TAACCTGTCT	TCACTCTGTC	AGAGGCTGGA	GTGCAGTGGC	ACAATCACAG
127921	CTCACTGCAG	CCTCCACCTC	CCAGGATCAA	GCGATCCTCC	CATCTTATCC	TCCTTAGTAG
127981	GTGGGACTAC	ATGTGCAGGC	CACCATGCCC	AGCTAATCTT	TGTATTTTTT	TGTAGAGATG
128041	GTGCTGTTGC	CCAAGTTGGT	CTCAAACCTC	TGAGCTCAAG	CAATCCATCA	ACCTTGGCCT
128101	CCCAAAGTGT	TGGGACTAGA	GGTGTGAGCC	ACCACTGCAC	CCAGCCAATG	ATATCTCATG
128161	ATGCATTAAA	GTCATTAAAT	TAGTGACTCT	AAATTAAGCA	CACTGCCCTT	TTATGCACAA
128221	CCTTTTTTGT	ATCTTATTTA	AAAAATCATT	TTCTATTTCA	AGGTCATGAA	GATCTTATTT
128281	TATAATACCT	TCTTGTGAAA	TTAGTTCTCA	AGACTACCCT	CACTTCTAAC	ACCAATTATA
128341	AGTTGGGAGG	TCTGTGGTTC	CCAATCAACC	TTAGGTTAGT	AATTTGCTAA	AAGGACTCAC
128401	AGAACTTGCT	GAAGCTGTTA	GCCTCATGGT	TACAATTTAT	TATAGGATAT	ATAGCTTATT
128461	ATGTCAATCC	AATGCAATGT	AAAATTATAC	AACTACTTTT	AAAAAGATTT	TAGCATTGTA
128521	CCCAACAATT	TCACTCTGAG	GTATACAAAC	AGCAGATATG	TGTGCACATA	TATACCAAGA
128581	CACATACACA	GCAAAATTCA	TTGTTTGTA	TAGTTGAAAA	GGGGAACAA	CTCAAGGAAT
128641	AAAGATTAAA	ATCAGCTGAG	AAAAGAAACA	CACAAGGCAG	TATTATGGAT	CGAATTGTAT
128701	GCAGATCTCC	CTTGCCCCCA	GAAGATATGT	TTAAAGTCCC	AACTCCCAGT	ACCTCAGAAT
128761	TGTGGCCTTA	TTTGGAATA	GGATAGTTGC	AGATATAATT	AGTTAAGATG	AGGTTATAGT
128821	ACAGTATGAT	GGGCTGGTGA	CTTAGAAGAA	GATAGTATATA	TATATTTTTT	AATAGAACTA
128881	GTATTCTTCT	AAGGTGGTCA	CGTGAAGACA	GACACACACA	GGCAGAGACT	GCGGTTATGC
128941	AGCTGCAGGT	CAAGGAATGT	CAAAGGTTGC	CAGCAAGTAC	GAGAAGCTAG	GAAGAGTCAA
129001	GGAAGGATTT	TCCTACAGGC	TTCACTGGAA	GCATAGATCT	AATGATACCT	TCATGTCAGA
129061	TTTCTAGCTT	CCAGAACTAC	AAGAGAATAT	ATTTGTTGTT	TTAAGCCACC	CTAGCTTCTA
129121	GCTCTTTGTT	ACAGCAGCCC	TAGGAACTA	ATATAGGCAC	AATCCAGGCC	AGTTCCAAAT
129181	ATGAGCTTCC	AGTTGTCCTC	TCCCAGTAAT	ATGAACAGTA	TTACTTTCCC	AGCTTAAATG
129241	TGTGACAATA	CACATGACGT	ACAGAGCAGT	CCCCACTTAT	GCACAAAACA	TATGTTCCAG
129301	GACCTCCAGT	GGATGTCTGA	AACCATGGAT	AGTACTGAAC	TCTATATAGC	TGTTTTTTCC
129361	TATACAGACA	CAGCTATGAT	AAGGCTTAAT	TTATAAATTA	GGCACAGTAA	GAGATTAATA
129421	ACAATAAATT	AGAATAATTG	TTAAGAATAT	ACTGTATAAA	AGTTAGGTGA	ATGTTTATTT
129481	CTGAAATTTA	CCGTTTATTA	TTTTTGGAAT	GCAGTAGACC	ACAGGAACCTA	AAACCATGTA
129541	GAAACCGTAT	ACAAGAGAAC	TGTATTTTAC	CCGAGCCTCA	GTGTGCAGTT	TTAATGGCCT

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129601	GCCATGGTTG	ACTGCTCACA	TGGCCGATCT	TTTAGTCTAC	CTCCACAGGT	AGAGCTGATA
129661	CTGTGTGGCT	CAAAGTTCCT	ATTATAAATC	ACATTGTTGA	CTGTGTGGTG	GTCAAAACCT
129721	CCAGGTAAAC	AAAGACACAC	TTATCAGTGA	GAACATTTCA	AGGGTCTAAA	ATTCATCTCC
129781	CAGTAGCTGA	GGGCAAAGGC	TAGACCTCTT	TTTGGGTAAG	ATAAATTTTT	TACCATATAC
129841	TTTATTTTGC	TTTTCATGTT	TAACTTTATT	TTGCTTTTCA	TGTTAGTTCC	CCTGGAATTG
129901	TTTTTTGTGT	ATAGTGTGAA	GTAGGGGGTC	AAGTTTCTTT	TTTTTTCCCT	TTGTTCCTTT
129961	TTCTGTTTAA	AAGGCTATAC	AATTGTCCCA	TGCCATTTAT	TTACAAGAGT	CCTTTCACCA
130021	TTGTTGTATG	GTGCCACTTT	AGATGTAAAT	CAATGTCCAT	ATTTGTTTGA	GCCTGTTCCA
130081	TTCGTTTGTG	TATTTTGTGA	CAACACTGCC	CTGATTATTG	TCATTTTATC	AGTTTTGATA
130141	TTTAATAAAG	CAACAGATTT	GTTTATTTTG	GGCCCTTGGA	TTTGTGTATT	AAATTTGAAC
130201	CCTGTTTGTG	AATTTCTATA	ATAAAGCTTA	TTGGGAATCT	GATTAGGATT	ACAATGGTTT
130261	TGTAGATCAG	TTTGGGGACA	ATTAATACCT	TTAAAATATT	GACCGCTTCA	ACTGTAATA
130321	TACTCCTCCA	TTATTTAGTT	TTCTGTGTTA	ATTTATCTGA	GTAATACATT	ATAGTTTTCT
130381	TCGTAGAAGT	CAGATACGTA	GAAAATTCAA	AGCCCAAGTG	CAATAGCTCA	TGTCTGTAAT
130441	ACCAGCACTT	TGGGAGGCCG	ATGTGGGTGG	ATCACCTGAG	GTCAGGAGTT	TGAGACCAGA
130501	CTGGCCAACA	TGGTGAAACC	TCATCTCTAG	TAAAAATACA	AAAATTAGCT	GGGTGTGGTG
130561	GCGGGCACCT	GTAATCCCAG	CTAATCAGGA	GACTGAGGCA	GGAGAATCGC	TTGAACCCAG
130621	GAGGCAGAGG	TTGCAGTGAG	CCAAGTTCCT	GTCACTGCAC	CCCACCCTGG	GCGACAGAGC
130681	GAGACTTCGT	CTCAAAAAAA	CAAAAAAAG	AACATTCAAA	TAATCAATGT	AGATAATTCA
130741	AATAACTAAA	AAATGAACAG	TTATTAAAAT	ATCAGGATAT	AAAAGCAAAA	AAATCAATAA
130801	CCTCCATATA	TACAAAATGG	CCAGTTAGAG	AAAAAAAAAA	GAATAGGCCA	GACTTAAAAA
130861	GGCTGGGAAT	CTCCCTGAAA	ATCTTTGAGA	GCCTTGGCCC	TGCCCTCAGG	GATTTCTCTG
130921	GCTTCATGCC	CAGATATGGG	TACAGTTCCT	TGTTTAAAAA	AATTTTGCTC	CATCAATCAA
130981	CAAGGGGCTC	CTTCCTCAGA	GCACAAGGAC	CTCCATAACA	CCGGACACTA	GATGTCTAAG
131041	GGACACCTCT	TAAGGAAGTT	AGACTTCCAA	AGAATGGTGT	TTCTCTGTG	CCCAAACTCT
131101	GGAACTCACA	GCACAACTGC	TCCTTGGAGT	TCGGTTTCAA	ATCTACAAGG	CTGTCATGGA
131161	GGTTGCAGAC	CAAGTCCGTG	GCCTCAGTGT	CCGGATGTAC	GGTGGCCTTG	GCACCTGAAT
131221	GTGAGAACAT	GACCTCCCTG	AAACCACCAC	AAGTATTGTT	TCATGTTATG	TATGTTTTTT
131281	CTTATCTGAA	ATTCCCTTTT	TTTAAAAATT	CAAATTACAT	ATTTTTCAG	CCCCTGAACA
131341	AGCTTCATGA	GCATTTATTG	AACCCACAGC	TTTTAAAACC	TACTGAACAC	TTTGCTCTAT
131401	GTTGTCATTC	ACTATCCACC	AATTATTTAA	TTATTGATCA	ATATTGTTTC	CTTAGTGTG
131461	GGATCATTTA	TGCATGTATT	TCTTTTATAT	TGCATATTTT	ATATTCTGTC	ATTACAGTTA
131521	TTACATATTA	CTTTTGCTAC	AGTAATAGTT	CAGAAGTGTA	CATCCAAAAT	TTAGCTGTGA
131581	AGTGGATGGA	CTGAGGCAGA	ACTGGAGGCA	AGAAAATGTC	ACAGTAATTC	TAAAAAAGAT
131641	GATGTACAAT	TAGAGCAAGA	GAGTAGCACT	GAAATTGAAG	AAAAATAGAT	GCGTTTGAGA
131701	GAAAATTAGG	AGGTAGAATC	AACAGATTAG	ATGTAGGGAT	GAGAAGGGTC	AAAGATGACA
131761	CTAGGGTTTT	TAAC TGGAGC	AAGTAGGTAG	ACAGAACATT	TCTTCTGAA	AGGGCAGGTC
131821	AGATCATGTG	TTGTCTCAA	GGGCATGAAG	AGTAGAAAAG	CTGGGACAGA	TCCTGAGATG
131881	ACCAATACCC	ATGGTGCAGG	GAGAGGGAGG	GAGATCTGCT	AAAAAGACTG	CAAATGTCAG
131941	GATAGTAGAA	AATCATGAGT	GTGTGATGTC	CTGGAAGTTG	AGACAGTATC	ACATTTGAGA
132001	ACATTTAAAT	TGGTAACTCT	GACAAAACCT	GGAGGCCAAC	TGTGAATGCC	CATGAGAGTG
132061	AGAAGCTCCC	ACACTTTTGT	GGGCATCAGA	AAGCCCACCA	GGTTCCTGCA	GTGAAGATCT
132121	GAGAAGGATC	CTCTTGTTGC	TTTGGCAGGG	AGAGAAGAAT	TATTATGAAA	TACACCCAG
132181	AACCTTCTTC	AAAACAAAGG	CCTACTCTCA	AGGGGAAAAC	ATTTTGCCAG	AGTCTTATCC
132241	CAGCTGGGAG	AAGGTAATTC	TTCCCACTGC	AGCCTCATCT	AGGCTTTCTG	TCTCACTTAA
132301	GGGAAGAAAA	TTAGTCAACA	GGGATCAGAG	CTTCATGAAA	ATAAATTGGA	AATGGTGCAG
132361	CCAGGAAAGG	AGCAAAGGTC	TGAGGAGGAG	GAGAAGGAGG	AAGAGGAGTT	GTATCATTAT
132421	AAATACTTGA	GGAAGAGGAG	GAGAAGGAGG	AGGAGGAGGA	GTTGTATCAT	TATAAACACT
132481	TGAGGAAGAG	GAGGAGGAGA	AGGAGGAGGA	GGAGTTGTAT	CATTATAAAC	ACTTGAGGAA
132541	GAGGAGGAGG	AGAAGGAGGA	GGAGGAGGAG	TTGTATCATT	ATAAACACTT	GTGACGGTCC
132601	CAGCCCCAAG	ATATAGGCAT	GCTAATAAAC	TGAGGCTTAA	CACCTTTGAT	ACAGAATGCT
132661	GCTTCTCCCT	AACACCATCA	AGGCTCCAAC	TGAATAACAA	TGAATTAGTA	ATGAAAGAGC
132721	TGTAAGGAGA	GACAAAAGTT	AGAATGAGAC	AAGTATTGTT	ATCTAGAGAT	GCCAAGAGAG
132781	CAAGGAAGAT	AACTAAAAAG	GCACTCTGGA	TTTAGAAATA	GGAAGTCATT	AGTGACCTTG

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132841	TAAATAATGG	AGCCAGAGGA	ATACCAAGGG	CAGAAGCCTC	ACTATAGTGT	GTTGCACCTG
132901	TCAGAGGTCA	GGAGGTGTAA	CTGACTCTCC	CACAGTGTGG	CTTTGGAAGA	GAGAAGTCAG
132961	CAGCTGCATG	GAGATTTGGG	AGAGGGAAAG	CTTTTTTTTT	TTTTTTTTTAA	TTGGAAAAGA
133021	CTGAGCTATG	TGTAAATAGA	ATAAGACAGG	AAGAGTGTAG	ACACAGGAAA	GAGGGCAGAC
133081	AAAAACAAGT	GCACAGTTAT	CTAAGGGAAA	CAATGGGATC	AAGCTGCAAG	TATATAAACT
133141	TGTCTTGATA	GAAGAATCCT	TGATCTGGTT	TATTCAGTGT	TTGGTCCAAA	CCCACATCCC
133201	TGTTCTGCCT	GTCTCTGACT	TGCTCTGTGC	CCCAGAAGCC	CAGCTTCTAC	AGATAGCATT
133261	AGCTGGGCAG	CCCTGCCCTC	TTGCAACAGC	TGGATTTGGC	CAGTGATCAG	CCCAGCAGGA
133321	ATGTAGATGG	CAAAGGAGAG	AGAGGTTAGT	GTACTTATTC	CCTGCATCAC	CCCCCTGCTT
133381	GGTGGGCAGC	TCTTCCTCCA	CAGTCCCAGC	TCTGGCCTAG	CTCTGGTTAC	AGGTTCCCTC
133441	CCATTGCCTC	TTCAGATTTA	AAGGTGTGTC	TGTCAGGGTA	TAAGTGGGAG	TAGAAATTCG
133501	CACTGAAATT	GAACAAAGAA	TTTTATGGGA	ATGGTTGTTA	ACTAGTTATA	AGAGGACTGA
133561	AAATGGAAAA	GTGGAACAAA	CGTATCAGAG	ATAGTAATGA	CAGAAAGCAA	CTACCACCTC
133621	CAGGTTTAGG	AGAACAAGGA	AAAGATTCTT	TGAAGAGATC	CCCAGAACTG	GGACCTCTGA
133681	GGAGTGTATG	CTGGACCACT	GATGATGATA	TGTCTGTAGA	TAGAGGCATG	ATGAGGCTGA
133741	TTTTAGGAGC	ATGGAAGATC	TCCAAACTGA	AGCCAACTGC	TGTTACTGGA	TTCAACTGCC
133801	ACTGCCAGGT	TGAAGAACCC	ATTCTGTGAG	GATGTCAACA	AACAAAGTGG	GAAATCTTTT
133861	CACATCCTTC	CAGCCCTCTA	GTCTTCCTCC	AGTGCTTTCT	ATTGGTAGGG	TTTGGGGAGG
133921	TGGCTAGCAA	AGCGGTATTG	GAAAAGATAG	AAGAGACTAA	ATCTTCATAA	CCAGCACAGG
133981	GTGACACTGG	ATCACTACTG	TTGCTGATCT	TGGGCTGCCT	CATATCCCTT	GTTCTTCCCA
134041	TTAGCCCTGT	CACAACCTTG	TAGATATCCC	TTCATTATAT	GCCCTTCATA	TATTCTTTTG
134101	GTTTAACTTT	TTCTGTTGGA	ATCCTAATAT	GGCACTCCTC	CATTTTTCAG	GACCAAAAGA
134161	GTATAAAAGA	TTATCTTTTA	CCAAAAAATA	GACAAAAAAC	TGATCTAATT	CCTGATTTGA
134221	TCATTACACA	ATCTATACAT	GTATCAAAAT	ATCACATAGT	ACCCCATATA	TATATACAAC
134281	TGTGTCCATT	AAAAATAAAA	ATTAAAGAAA	AGATGGTAAA	TATAGCTCTG	TCAGGCAGTG
134341	GAGGTTTTAC	CACGATGGCT	GTTATTTCCC	CCATGAAGGG	GGGAGTGAGG	GAGCAGCTGA
134401	AAGTAGGTGC	TTATAGGGGT	ATAGAGGGGC	TCAAAGCTTT	GAGAGAGGAG	AATGTCTGAA
134461	AGAGCTGCCA	AATAGCATGC	AGGTCCCATG	GGGGCAGAGC	CTCTGCTCAT	TCACCAGTGC
134521	CTCTTCAATA	TCTACACTTA	AGCCTAACAC	AAAGTGTGTG	CTTAATAAGT	ATTTGCTGAG
134581	TATGTAAAGT	GGAAACAGAA	CCAATCTGGC	AAACTTTGTA	GGACTGGTGG	GCAATGAAGA
134641	TCAGTCAGGT	AAAATCTGTG	GATATAAATT	TATATTGATC	AAAAAATTCA	AGGTTAGGTG
134701	TTTTCTTCA	GTCTGCTCA	ACGATGCTTC	AGCCATGCTC	AACTCTTCTG	TAGCCACAGA
134761	AAAAAGTTTA	CCCATAATCG	AGCTGTGTCT	GTGTCTGAAT	AATGAAAAGA	CCATGATGCA
134821	AGGGAGTTGG	AGACACAGAA	ACAGTGTGTT	AAGTAATGGG	TAATGGAAGC	ATGCTACCAG
134881	GGAAAGGAAA	GAAGTGGCAA	TAGGAAGGAA	CAGAGATCTG	TGGTCCATAT	TCCCCTGAGC
134941	ATATTCACAT	GTTAAAGCTA	ATTTCAGTTT	CAATCATCAT	TAAAATTTTG	TTCCTAAATA
135001	TATGGCCATT	ATTTTCCACA	ACCACACTAA	AACTTTATTA	CCTCTGGCAA	GTGACTATGC
135061	AAGTAACTAA	GAGCAAAAAT	ATCCACAAC	ACCATTTGAG	CTATCAATTT	AGGGAAGTCT
135121	ATCTGGCTAT	AATCTAAGTG	ACCCTCCACT	GAATGTCAGT	ATCTTTGCAT	ATGTGATTTA
135181	AATCTGGGCC	TTGCAACAC	CATGAACTGT	TCTTGTCTTG	AATATCCAGA	TTGAAGGAAA
135241	TAATCTGAGT	AGTTACGAGT	CCTGAAGCTA	GAAAGATGGA	AACCCCATTT	GCTCATCAGA
135301	AAGCCTTAGA	GCTTGGGCGC	TGGCGGGTCC	TGTCTCACCG	GGACAGAGGG	GCTCTTTCCT
135361	CCCCATCTGA	TAGTCTGATA	ACTAGAGAAG	CCGGCCAAC	TATTCTCCAA	GAAGGAGCCA
135421	TCTTAGTTCC	TCCTGAAATG	TTCATATTTA	GAAATTATTG	TTTGTCAGTA	ATTTAACCCC
135481	TTAATGGGCT	TGCCTTGTGG	TCCATACCAC	TGAGTGCAGA	GCTTGCCCTG	AAGAATTGTG
135541	AGGGCCATT	CATCTTCCAG	GCAGTAGAGT	TCAGTACTTC	TTTAAAATTG	CTGCTGAACT
135601	CTGTATTTGA	AAAGAAAGAA	TCAATTTGGG	GTGGTAGCTC	ACACCTGTAA	TCCTAGCGCT
135661	TTGGGAGGCT	GAGGTGGGAG	GATCAATTTG	TGCCAGGAGG	ACCACTTGAG	ACCACCCTGG
135721	GTAACATAGC	AAGACCCTGT	CTTTAGAAAA	AAAAAATACA	ATAAAATAAA	TACAATAAAA
135781	ATAAAAGCAA	AAAGAAAGAG	TCCATCTTAG	GGACAGACTG	TAAGTACTCA	CTGGAGCTTA
135841	CCTTTACATA	GTTACAGGATC	AATTATAATA	AAACACTTTT	GTGCAGATT	AATAGCTTAA
135901	TTTTAATCCC	CATCATCTCT	CTGAGTTTCC	AGTCAGTTTC	TCTGCATGTA	GACACCCTTC
135961	TCCAGCCAC	CATTGTCTCT	CCTCCTATAG	CTCCACCAAC	AAATCAGAAC	TTTTTCTAAC
136021	TGCACCTAGT	GCACCTAGAG	TCTACTCCAG	AATGCTCATG	GAGAAAGTTT	CTGAAAGGTA

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136081	AAACTCTGAA	TGATATTTGT	AGCTAAAGGG	AGACTTGCTA	GAGACAATAA	GCTAATAGTT
136141	GTAGACTTCA	GTAGAAGAGG	AATGACACTG	CAATGTCAGG	GTGCAGGACT	TCAAGAGGGC
136201	AGAGTATGGA	AACCCAATGG	GAAAAATGCT	CACCAGGAAC	ATGAAGAGAA	GGAATTACGT
136261	GTAAGGATTT	CTCAATGTGT	TCCCAAATTT	GCCCAGCAGA	GGGAGGCCTC	GGGTTGATGG
136321	CAGGCTGACC	ACACAATTAA	AGAAGGCTGA	ACCTGGGGGC	TTTTAACAAC	CATCGTGGGC
136381	TCTACTGTAA	GCATTTAGAA	AAAGAAAGTT	ATCCATTCAA	AAATATATAT	ATTTTTTAAAC
136441	TTCAGAACAA	AATTATGAAG	AGCTATATTT	ACTTTTCTAC	ATTCTAATTT	TTATAAATCT
136501	GAGTATATTT	TGCATATATT	GTTATAGTAC	ATATTCAATT	TTGTATTTTG	CTGTTTTTAC
136561	TTAACCATTT	TTACTAGATT	ACTCTGTGTT	CATAATAATC	ACTTTTTTAA	AACTTTTATT
136621	TTTATTTTAT	TATTTTTTTT	TTGAGTCAGA	GTCACACTCT	GTCGCCCAGG	CTGGAGTGCA
136681	GTGGCGTGAT	CTTGGCTTAC	TGCAACTTCC	ACCTCCTGGA	TTCAAGCAGT	TCTCCTGCCT
136741	TAGCCTCCTG	AGCAGCTGGG	ATTACAGGTG	TGCACCACCA	AGCCCGGCTA	ATTTTTGTAT
136801	TTTGTAGTAA	GACGGGGTTT	CACCATGTTG	GTCAGGCTGG	TCTCCAACCTC	CTGACCTCAT
136861	GATCTGCCCC	CCTTGGCCTC	CCAAAGTGCT	GGGATAATCA	CTTTTTATGC	TGCATAATTC
136921	TTCAGATTTG	TCAGTACGAC	TGTATTTACA	CTCATTTGTT	TTATTAGAAA	GAATTCCAGA
136981	ATATTTTGGC	TGCCCTAATT	AATTTTACAA	TTAATATGAT	TTTGAAATTG	GGTATTGGCT
137041	CCTTCTGAAT	TGGTTTATTA	AAATATATTC	TAATGTAATT	TATGACATTT	TCATCATATT
137101	AGCATATTTA	TTCTGTTAGA	ATTTTATAAT	TTATAAAGCT	ACAAACTGTA	TGTGATATAG
137161	CTTGTAACCT	TATCTCATAA	CTTTATGCAG	TTACAAGTAG	AAATAAAATG	TTCCCTCAA
137221	GATTGCTTAA	AATTTTATTA	TAAACAAGTG	TAAAAAACAA	AATCACTAAA	ACACTCCCTC
137281	TTTTTTCCCC	CAAAATGCAT	GTTTCCATTT	TAACAGAACC	CGTATTTAAT	CAGCAGATTT
137341	CTATGGTGGC	TAGATTTGTA	GACTAAATAT	TAAAAGTCCC	AAAGCAAATG	CATTTTTTCTC
137401	TTAAATTTTA	CTGACTTTTT	TTTTTTTTTCT	TTTTCTGAGA	CGGAGTCTTG	CTCTGTGCGC
137461	CAGGCTGGAA	TGCAGTGGCA	CAATCTCGGC	TCACTGCAAC	CTCCGCCTCC	CGGATTCACG
137521	CCATTCTCCT	GCCTCAACCT	CCCGAGTAGC	TGGGACCACA	GGCGCCCGCC	ACCACGCCCCA
137581	GCTAATTTT	TGTATTTTTA	GTAGAGACAG	GGTTTCACCG	TGTTAGCCGG	GATGGTCTCG
137641	ATCTCCTGAC	CTCATGATCT	GCCCACCTCA	GCCTCCCAAA	GTGCTAGGAT	CACAGGCATG
137701	AGCCACCGCG	CCCCGCCTAC	TGACTTTTAT	CCAAAGAAAA	TATAAGAGCT	CTTCATCATA
137761	ACGTATGTTT	CTTGCTCTTG	TTATTAAATA	TGACACATTT	AGACTTAAAC	TGATTTGAAG
137821	GTTTATGACA	TTGTTTAAGT	TATTACATAA	TTAATTCATA	AAGATAATGA	CTAGTTTGAA
137881	CTACTGACAG	CTCACACATC	ATCAGTTGAA	CAGCAGAAAAG	CTTATTAAGC	TACTTTCTTA
137941	TGTTTCTGTC	TCCCAGCTAC	TAAAAGAAAC	GAAACCCTTC	CAGGTGTTAA	GGCAAAACTT
138001	TCCTCCCCCT	TTCTTCTATA	AATCTGATTC	CATGTTAGTG	AAATTTCTAC	TGATGGCTTT
138061	GGTTTCCTCT	ATAGTAGAAT	AGAGATCCTA	TGGCAAAAGT	CATGTCTGAC	ATGGTAGCAA
138121	ATAGAAATGG	GGAAAAGGAA	GGTCTGCAAG	AGCCAATGTG	GGAAATGGGG	AGAGGACTGA
138181	CTACAAAAAC	CCAGCAGGAA	TTCCAGAAGA	AAACTCCTCA	GGACGGGCAC	ATTGGCTCAT
138241	GCCTGTAATC	CCAGTACTTT	GGGAGGCCGA	GGTGGGCAGA	TCACTTGAGT	CCAGGAGTTT
138301	GAGACCAGCC	TGGTCAACAT	GGCGAAACCT	CATCTCTACA	AAAAATAAAA	AAATTTGTCA
138361	GGCGTGGTGG	CATGCACCTG	TAGTCCCAGC	TACTCAAGAG	ACTTAAGTGG	GAGAATCACT
138421	CGAGCCTTGG	AGGTGGAGGT	TGGTGAGCCG	AGATCACGCC	ACTGCATTCC	AGCCTGGGCG
138481	ACAAAGTGAG	ACGCCATCTC	AATCAATCAG	TCTCCTCGAA	AAGCAACATT	ATGGAGAGAC
138541	AGGATTCCGT	CAAGGCCCTGG	GGCACACAGG	AAAATATTAA	GGCAGAAGAG	AGTTTCTCTC
138601	CCACACCACA	CCGTATCCCA	CAGGCACTGC	GGATGTGCAT	ATGCAAGAGG	GGTTGATCCT
138661	AAGAATTTAG	AGTCACAGAG	GAGGAGGCAC	CAAGCAGACT	GTGGAGAAAG	TCATGACCAG
138721	AAAGGGACAG	AATGTAAAGC	TTCAGCTGAT	TATCTGGCCT	CAGGGATTCC	AGAGGAACTG
138781	GTCCCAATGG	TCTCCTGGTG	ATGTAGGTTT	TTAGGTTTCT	TTTACAGGGG	TTTTCTGGGA
138841	GATCGTTGAC	CCAGTTAGCA	TTCAAGCAAC	TTCCACCCTG	CACTTTTATT	CTTTCCCTTT
138901	CACCTGCTTA	GGTTTTATCT	GTCCAGGCAA	TAATAATAAA	ATTATTGAGC	CCTGGACATG
138961	TACCTGTAAA	GCTCCTTAAA	GATGATGCCT	TCTAACTCCT	CATTCAACAG	ATACAAAAAC
139021	ATTACAATAA	AATGACTCAT	GCAAGACACC	CAGGTAGTTT	ATAGCAGCTA	ATAAAAACAG
139081	AATAACTATA	AAATATGGTA	AGTTTATAAA	AGTTACATTG	AGTATACTTT	ATAAGAACTG
139141	CTTATTGAGT	TTGCCTAATA	ACCACACAGC	ACAATAATAA	TATGTATATA	TTTTTAAATA
139201	TGTGTAAATA	TGTGTAACAC	AACTTTGTAG	AAGGTATATC	TGAGTACAAC	CCTATTCTGT
139261	TTGGTTACCT	TTTCTAGTTC	ATTATGTAAAG	TGGCATAGCT	ACCTAAGGAC	TTATGCTTAT

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139321	AAATGTTACT	CAAAAAAATA	CAGAGGACAT	ATGTGGATAG	ATAATGGAAG	AGATAAGATA
139381	GGTAGGTTGA	AGGGTTGGGC	TGCCCCCTCA	CACCTGTGGG	TGTTTCTCGT	TAGGTGGAAT
139441	GAGAGACTTG	GAAAAGAAAAG	AGACACAGAG	ACAAAGTATA	GAGAAAGAAA	AAAAGGGGTC
139501	CAGGGGACCG	GTGTTTCAGCA	TACGGAGGAT	CCCACCGGCC	TCTGAGTTCC	CTTAGTATTT
139561	ATTGATCATT	ATTGGGTGTT	TCTCGGAGAG	GGGGATGTGG	CAGGGTCAAA	GGATAATAGT
139621	GGAGAGAAGG	TCAGCAGGTA	AACACGTGAA	CAAAGGTCTC	TGCATCATAA	ACAAGGTAAA
139681	GAATTAAGTG	CTGTGCTTTA	GATATGCATA	CACATAAACA	TCTCAATGAC	TTGAAGAGCA
139741	GTATTGCTGC	CAGCATGTCC	CACCTCCAGC	CCTAAGGCAG	TTTTCCCTTA	TCTCAGTAGA
139801	TGGAATATAC	AATCGGGTTT	TACACTGAGA	CATTCCATTG	CCCAGGGACG	AGCAGGAGAC
139861	AGATGCCTTC	CTCTTGTCTC	AACTGCAAAG	AGGCGTTCCT	TCCTCTTTTA	CTAATCCTCC
139921	TCAGCACAGA	CCCTTTACGG	GTGTCGGGCT	GGGGGACGGT	CAGGTCTTTC	CCTTCCCACG
139981	AGGCCACATT	TCAGACTATC	ACATGGGGAG	AAACCTTGGA	CAATACCTGG	CTTTCCTAGG
140041	CAGAGGTCCC	TGTGGCCTTC	CTCAGTGTTT	TGTGTCCCTG	AGTACTTGAG	ATTAGGGAGT
140101	GGAGATGACT	CTTAACGAGC	ATGCTGCCTT	CAAGCATTTT	TTTAACAAAG	CACATCTTGC
140161	ACAGCCCTTA	ATCCATTTAA	CCCTGAGTTG	ACACAGCATA	TGTCTCAGGG	AGCACAGGGT
140221	TGGGGCTAGG	GTTAGATTAA	CAGCATCTCA	AGGCAGAAGA	ATTTTTCTTA	GTACAGAACA
140281	AAATGGAGTC	TCCTATGTCT	ACTTCTTTCT	ACACAGACAC	AGTAACAATG	TGATCTCTCT
140341	CTCTTTTCCC	CACAGGAGGT	GATGGCCCGA	AGAACATGGC	AGAGGGCAAA	ACAAAACAGC
140401	ATTGGGAACA	AGCTCTGTTT	AAAAGGAGAC	TTGTGAACAG	CAAAGAGTAG	AAAAGGTTCT
140461	CTTACAACCTG	AAGCCCATGG	AAGACAAATG	TGTACTGCGT	GAGTTTTAAG	GCAATAGGAG
140521	TAGTGGGACC	TAGGGCACAC	CAGAGAGCAT	ATTAACCTCT	AAACTTTTAA	AAACATTATA
140581	TCTGCTGGAC	ACAGTGGCTC	ACACCTTAAT	CCTACAACCT	TGGGAGGCCG	AGGCGGGCGG
140641	GTGTAGCTTG	AGCCCAGGAG	TTTCGAGACCA	ACCTGGGCAA	CATGGCAAAA	TCCCGTCCCT
140701	ACAAAACAAA	CAAACAAAAA	ACAAAATTAG	CCAGGCACGG	TGATGCGTAC	CTGTGGTCCC
140761	AGCTACTCAG	AGGCTGAGGT	GGGAGGATCG	CTTGAGCCCC	GGGAGGTTAA	GGCTGCAGTG
140821	AGCCATGATA	ATGCCACTGC	ATCTCAGCCT	GGGCAACAGA	GGGAGAACCT	GTCTCAAAAC
140881	AAAAACAAA	ACACACCATA	CCCAACCACA	ATGCATCTGT	CTTAAGTACC	AGTACCACAC
140941	CCCTCTACTC	ACTACTAAAT	AGGTGAGTTC	CCAATCCCTG	GTAGCAGGTT	TAAGCATGTT
141001	ATATTAAAGG	TCTTAGGCTA	GTGACTCATT	CACCTATTAA	ACAAATACTT	ATTGTGCATC
141061	TACTATAAAC	TAAGTACTGT	GCTAGGTACA	AAAGCAAATA	ATCTAAGCTC	TATAAACTTT
141121	ACTTTCCTTCA	TCAACAAAAT	GGAGATGTTT	TAGGCATCTA	CTCATCATTC	TGAGCTCCAT
141181	CTTTTGTGAC	TGTAGTTGGC	AGAGCTTTTT	ATCAGTTTCT	CTAAATAGCT	CTACCAGTCC
141241	CTGGTGGATG	CTGGCATGCC	CAAAGGATCC	ATCCTGATGG	CCCTGTCTGC	TTACCTTACC
141301	TGCCTGCCTT	TGCAGCACCG	CTCTGCTCTT	CTGCAGGACT	TCCCTTATCC	TTTGGGGTCT
141361	TGCTGCTCTT	AGGCTGCTCT	GCTTGTTTTG	ATCTGCTTTG	CATCACATGT	ATGTAAAGGT
141421	CCTTTCCTTA	TTTACCCATG	ACCAAGGTAT	TATGAGATTC	TGGAATTTCC	CCAAACCACA
141481	TTGATTGCTG	GGAGAATAGA	AGAAGTGGAT	TACAAGTGGA	ACTTAGAAGG	GGAGTATTCG
141541	AGAAGACGTC	TCTGCAAATC	CATTTAGAGA	GACCTTTCTC	CAGTGGTGAC	TCAAAGATGC
141601	AGCTCCTTTC	ATCCTGTGGC	TTGGCCATCT	TCAGCACATG	GCTCCCAAGG	ATGTCCTCAG
141661	GATGGTCTCT	AATCCAAGGA	GCCTGAAGAG	AAAAAAAGGC	ATGGAGTATT	GTGAGTGGTA
141721	GGTGGTTATG	GACCAGTTAT	GGAAGAATAC	ACATCACTTT	TGCCCACCTT	CTACTAACCA
141781	GAAGTCACAC	AGCCATAGAC	ACTGACAAGT	AGGACTTAAC	AAGAATCTAA	TTTTGAGTCT
141841	AGGAATACGA	CTGTAGCAAA	TATTTAACAG	CTTCAAACAC	AGGTGCATTG	CTATCACTAT
141901	GCTTGGCCCA	GGCCTGTCTC	CCTTTCTCTC	CATGTCACAG	GGGCCAGCAT	TTATGTCTAG
141961	ATTGGGTTGG	TTGGGATATT	AAGACAATAA	TGAACCAATA	CAACATCTTG	AGCATAAAAC
142021	CAACTGATAC	AATGATGTAC	AAGTCAGATG	ATTCTGATGA	TTATGAATTA	TGTCAATAAA
142081	AGAAATGTGA	TAAGTAAGGT	AATTTTTGTT	TTGGCAAATT	TTTGTGTTGT	CATGACAGGA
142141	TGAAATCCTG	TCATTTGTAG	CAACATGGAT	GGAATTGCAG	GATACTACAT	TAAGTGAAAT
142201	AAGCCAGAAA	CAGAAAGTTA	AACACCACAT	GTTCTCACTT	ATATGCAGAA	GCTAGCTAAC
142261	TAAGTAAATA	AGTTTATCTC	ATTGAAGTAA	AAAGTACAAC	AGAGATTACT	AGAGGCTGGG
142321	AATGGTAGGG	GAAAGAGATG	ATAAAGAGAG	ATTCAATAAA	ATAAGTTACA	GCTAGATAAG
142381	AGCAATCAGT	TCTAGTGTTT	TATTTGTACT	ACAGAATGGC	AATAGTTAAC	AGTAATAAAT
142441	AATTTCAAAG	AGCTAGAAAA	GAGGACATTG	AATGTTTCCA	ACACAAAGAA	ATGAGAAATG
142501	CTTGAAATAA	TGGATATTCT	AATTAATTAC	CCTGATCTGA	TCACTATACA	CAGTATGTAT

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142561	AAAAATAACA	CTATGGGCTG	GGCGCAGTGG	CTCACACCTG	TAATCCCAGC	ACTTTGGGAG
142621	GCCAAGGTAA	GCAGATCACT	TGAGGTCAGG	AGTTAGAGAC	CAGTCTGGCC	AACATAGTGA
142681	AACTCCATCC	CTACTAAAAA	TACAAAAATC	AGCCAGGCGT	GGTGGCATGT	GCCTGTAATC
142741	CCAGCTACTC	AGGAGGCTGA	GGCAAGAGAA	TTGCTTGAAC	CCAGGAGGCT	GAGGTTGCAG
142801	TGAGCCGAAA	TCGCGCCACT	GCACTCCAGC	CTGGGTAACA	GAGCAAGGCT	CTGTTTCAAA
142861	AATAAATAAA	TACATAAATA	AATATTTTTT	AAAAAAAGAA	CATCACTATG	CACCCCATAT
142921	ATACATATAA	TTATTATGTC	AATTTGAAAC	ATAATTTTGA	AAAATGAAAA	AATGAAACAC
142981	AAATATGAAT	CAATCCTCTC	CAAGTTGATA	TACTTAAAAG	GAAAAAAGTC	CGAGGGCTTA
143041	AACTATTCAA	TCAAAATTTT	ATTAAAATGC	TATAGTAATC	TGGAAAGTAT	TTCAGAATGA
143101	ATTGGTATAA	GGTTAGACAC	AAAGATCAGT	GAAACAAAAT	AGAGAACCCA	GAAATAGATT
143161	CACACATCTA	TGGACAACCTG	GTTTTGACAA	AGGTGTCAAG	GCTATTTAAT	AAGTAAAAAA
143221	ATCGTCTTTT	CAGTAAATGT	TTCTTGAACA	AGTAGACATC	CGGTGTGGGG	GAGAGGAGCA
143281	GGAGCCTTAC	CTCAAACCTT	ATGCAAAAAT	TAACTCAAAA	TAGACCATAG	ACTTAAATGT
143341	AAAAGCTAAA	ATTATAAAAC	TTCTTTAAAA	AATAGGAGAA	AATCATCAAC	ACCCTAGGAT
143401	TAGCAAAGAT	TTCTTTAAAA	CAAAACAACA	GGTTTATAGT	TTATAAAACA	TAAATAACAA
143461	AATGATAAAT	TTCATCAAAA	TGCAAAAATT	GCTTTTCAAA	AAACATTATA	AAATGAAAAG
143521	CAGGAGGCTG	AGGCATGAGA	ATCACTGGAA	CCCGGGAGCT	ACAGGTTGCA	GTGAGCCAAG
143581	ATGGTGCCAC	TGCACTCCAG	CCTGGGTGAC	AAAGTGAGAC	TCTTCCTAAA	AAATAAATAA
143641	ATAAATAAAT	AAATAGAAAA	GAAAAAGAAA	AATCACAGGC	TGAGAGAAAA	TATTTATAAT
143701	ACATGTATCT	GACAAAGGAC	TCGCACCTGG	AAAATATAAG	GAACCTTATA	ACTTAGTAAG
143761	ATGACAAGCC	AAAACAAGAA	GTAAGAGTTT	TCAACAGACA	TTTCACAAAA	GAAAACATAC
143821	AAATGGCCAG	TATGCACATG	AAAAGATTTT	AAACATCATT	AGTTACTAGG	GAAATGCAAG
143881	TCAAAACCAC	AATGAGATAC	TTCACATTCA	ACAGAATAGC	TAATGTTAAA	AGGACTGACA
143941	ATCCCCAGGG	TGAGCAAGGG	TGTGGAGGAA	ACTACTCTCA	TATATTGTGA	ATGTAAGAGG
144001	CATTTTATGA	TATAACTGAA	TTCAGTTTTA	TGTATAACTG	AATTACGGAT	ATGAGAATCT
144061	CAAATGAGGA	CGAATGGTTT	TTACGCACAA	AACATGAGAC	ACAAATCTGT	AAGAAATATA
144121	AAGTCGTGAC	CAGTCCCTTT	CAGAACTTTA	ACCTGTTTGC	TGAAGTACGT	CAGTAACAAT
144181	GGCAGGGAAA	GGGTATCTTA	AATTTACACCA	CAGCCTCAAA	GAGGCCATTT	CGTGGATCCG
144241	CTGAGGCTTG	GAGTCGGCCT	TCTGACCACG	AGTCCCTGCG	CTATGAAAGA	GGAAGCCGCG
144301	GTTCAGGGCG	TCCTCGCGAG	TCGCGCAGCC	CGCCCTGCTC	CAGCTGGGGA	CACAGGTGGT
144361	CACGGCGCTT	TCCAGCTGCA	GATCCAGGCG	GCAGCCCAAG	ATTGTTGTTCA	GCCGCCAAGG
144421	GGTGGCTCGA	GTGACTGACG	GGCCTTGAAC	GCTCCCAGGA	CCCACATCTG	GAGAGGGAGG
144481	TGGGGGTGGG	GTGCTGAAGT	CATTCTTGGG	GCCCCTGGGG	GCGGGCATGG	ACCTGGGTAA
144541	GGCCAGAGAA	ATTGACACCT	CGTGACATCC	CTGGAAGAGA	AGTACGTTCA	GTGTCACTCC
144601	AGAGCTGAAA	GATACCGCCT	TCTGGCTGGT	CCCTCCTCAC	CTACATACTT	TTCTAATTTG
144661	TCTGGAGCAG	GCCGGGCATC	TGTATTATCT	GGTTATTTAA	ATATCTGGTT	ATTTAAAGC
144721	TCTCCATTAA	ATTCACATAC	ACGAAAATAA	AAATTAAAAA	AAATTTTAAA	AAAAAGAAAC
144781	AAAAGCTCTC	TAATGACCAA	GTCCTACACG	ATAGTGAATA	AATTTTTTGT	TGTGGTCCCT
144841	AAAATTGAGT	TCATGCCTTT	TCTGAAGTAA	TAGACGCCCA	GAGAAGGGAT	CGACTTACCC
144901	ATCATGCCAC	AGAGATTAAT	TGGCCCCAGA	ATTCTTTAGC	AGACCGTGTA	TATGAACGTC
144961	CTTTGCAATC	ATATAAATTA	ACTGGGAAAA	CCTCATTTAG	TATGTTACAT	GCCTAGCGTT
145121	TTGTGCCTGA	ACACCTTACA	AGAACCAGGG	ACTATTGCCC	CAATATTATA	TTTCAGGAAA
145181	GGAAGGCCCA	GACAAATGGT	GTCACTGGTC	CACTTTCACC	CAGTTGGTAA	ATGAAACCAG
145241	AAATTATAGC	TGTACCACAG	AAAGGTGAAA	ACGTTTCTTT	TATAATTTCA	CATACAATCT
145301	TTAATGGACC	CAGTGTCCAA	CACATTAAG	CAAGTGCTCA	GGAGTGACAT	CAAGATGTAA
145361	AAAATAGTCC	TGTCCTCAGG	GAGTTTAGGT	CTTGAGAGAA	AGAGACCCAA	GGAGACACAA
145421	GACAAAGGGG	AAAGAGAAGG	AGCGCTGAAG	ACTGAGGACC	CTGCCTGTGG	ACTGAAGTGA
145481	GGATGGGGAC	ACCCGATGCC	CGGAATATGA	CAGTTTGGAG	GGGCCTGAAG	GACTCTTCTA
145541	TTCTCTATCA	GAAAAACAGA	ATTACTCTCC	TAACCAGAAA	AGGTATTTCA	ATTTATATTT
145601	TCCATCACAG	CACTTTTCTG	GTGATAATTT	AATGTGTTTT	AAAAAATGTA	TCACAGTGAT
145661	GGCCTGGTGT	GAAATAAATA	ATAAAATTTT	AAGAATTAAA	AAATATAAAA	ATCTTTTATA
145721	TAGACATTAG	GAGTTACAAG	GATAACTGTG	AATTATAATT	AGTAATTAAA	TTGAAATACT
145781	GATTATTTTC	ATTTTTATTT	AATTATTTAA	TAAAACCTAT	TTAACATTTA	ATATTTATCA
145841	GTAATTAAAT	CTAATTGTTA	ATATTTATTA	TTATAAATTA	TTTTAGAATT	AAAAATAAGT

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145901  GTAGAAGCGA GGCATGGTGG CTCAAGCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG
145961  GAGGATTGCT TGAGCCCAGT AGTTC AAGAC CAGCCTGGGC AACATGGAGA AACCCCTGTCT
146021  CAATACAAAA AAATGAGCCA TGTGTGGTGG TGC GTGCCTG TATTCCCAGC CATTTCTGGAG
146081  GCTGAGGTGG GAGGATGACT TGAGCCTAGG CAGTCAAGGC TGCAGTGAGC CCTGATCTTG
146141  CCACTGCACT CCAGTCTGGG CAACAGAGCA AGACCCTGTG TCAATATACA TATGGACAAA
146201  CTTAAAATTT AAAATGAAAG CATACTACTG ATACAGAATT GAGTAGAGAT GCAAAGCTAG
146261  TCCTATAACC AGAACAATAA AGATAAAAAG GAGAGTGGAA GAAGGTATGT CATGAATTTT
146321  ATGATAAATG GCAATTGCAA ATATCCTGTA GCAGAACAAA ACAACAAAAT TG TAGATAAA
146381  ACATATCCAA CCCTTTGGAA GGCCAAGGAG GGAGGATTGT TTGAGCCCAG AAGTTGGAGA
146441  CCAGCCTGGG CAACATAGTG AGACCCTGTA TCTAAAAGG AAGAAAGAAA AAAAAAAAAA
146501  AGGATGATAA AGTAGACAAT ATTGAAAGCC ATTTTCTGCA AATACATAGT GAATTTGATC
146561  AGTAATTTTC TTCCAACAGT GCAAAAATGA ATAGATATTA GTTGCCTGAA ATAAAAATCA
146621  AATATCCAAC AAAAAATATT GACTATCTAA TAGTATCTAA GCTAGTAAAT TTGGCCAGTT
146681  ATAAAAATGT TTAAATTTTT ATTTAAAAAA AGAAAACCAT ATTTATAAGA AGAGGTGATA
146741  AAGAGAAATT ATTTTCAGTTA TGAAGATTTT GTTAGAAAAC TATGAGAAAA AA ACTATTTT
146801  TTGTTTTC AAAGTGAAAG ATTAAGTTAC CAAACAGTTG CTAAAGAATA CCAGATGGCT
146861  GAGCGTGGTG ACTTATGCCT GTAATCCCAG TACTTTGGAA GGCCAAGGCA GGAGGATCAT
146921  TTTAGGCCTG GAGTTCGAGA CCAGCCTGGG CACTGTAGCA AGACCCTCT CTATTA AAAA
146981  AAAAAAAAAA AAAAAAAAG AATACCAGAC CTTGCTAACA ATAGCAAAGA TCAATTAATT
147041  CAAAATTTGA AAAACTGTAA TTTATTTAGC TTTAGAGTAC TCTCGTGATA TGAGATTGCC
147101  AAATTAATAC TTTGGGTGCA TTTCTTTTCT CAAAGGACTT GCAAATTTAC AAAGAAGTGT
147161  TGAAGAAAAG CCACACATTG GCAGGTAATG TTTGCAAAAAG ACAGATCTGA TGAAGAACAA
147221  TATTTTTAGA ATATACAAAG AATACTTAAA ACTCAACAGT AAGAAAATAA CCTGATTTAA
147281  AGCAGGCCAA TGACCTGAAC ATCTGTTTAC CAAAGAAGAT ACACAGATGC AAGTATGCAT
147341  ATGAAAAGAT GCTTGACATC ATGTCAATTAG GGAAGTCAA ATTA AAACAA GTAGATACCA
147401  CTGCATACCT AGTAGAATGA CCAAAATTTA GAACACTGTC AGCACC AAAG GTTGCAAAGA
147461  TAGGTAGCAA TAGTAAGTTG TTCATTACTG GTGAGAATGC AAAATGTGCA ATCACTTTGG
147521  AAGACAGTTT GGTGGTTTCT TACAAAAGTA ACCATACTTT TACCATAAGA TTCACCAATC
147581  ACACTCCTTA GTATTTATCC AAAGGAATTG AAAACTTATC TCCACACAAA AACCTGCACA
147641  TAGATGTTTA TAGCAGCTTT ATTCATAATT TATCCAAAAC TTGGAACAA GATGTCTTTC
147701  AGTAGGTAAG TGGATAACTG TGGTACTTCT GAATAATGGA ATGTTATTTA GAGTTAAAAA
147761  GAAATGCATT CACTTTGGGA GGCCGAAGTG GGTGGATTGC TTGAGGCCAG GAGTTTGAGA
147821  CCAGCCTGGT CAACATGGGA AAACCCCAAT TAGCCGGGCA TAGTGGCGTG AGCCTGTAAT
147881  CCCAGCTACT CGGGAGGCTG AGATATGAGA ATCGTTTGAA CCTGGGAGAT GGAGGTTGCA
147941  GTGAGCCAGT GCCACTGCAC TTCAGCCTGG GCAACAGAGC AAGACTCCTC TGTCTCAAAA
148001  AAAAAAAAAA AAAAAAAAAA AAAAAAGAA AGAAAAGAAA AAAGAAAAG AAAAAAGAAA
148061  GAAACGATCA AGCCATGAAA ACACATGAAG GAAACTTAAA TGTATGTTAC TAAAAAGCCA
148121  ACCTGAAAAG ACTGCATACT ATATGACTCC AACTGATGCA GGGCAAGCAA GCCAAAATT
148181  AGGGCTTAGC CCGGGAAGAA TTCAAGGGTG AAGTGGTGGT GTTAGCAACT TTTACTGAAG
148241  CAGCAGTGT AAGAGTGCAG ACAGGTAAGT CTCCTTGCTG AGCAGGGCTA ACCCATAAGT
148301  AATGTGCCCC GAGTAGCAGC TCAGGGGCGA TTCTGCAGTA ATATACCTGC TTTTAGTTAA
148361  GTGCATGTTA AGGGGGATTA TGCAGAAATT TCTAGAAAA GAGTGGTAAC TTCGGAGTAG
148421  GTACAGAGGA AAGAAGTCGA TAATGTCCTG TTGTTGCCAT GGCAACGAAA AACTGACATG
148481  GCGCTGGTGG GCGTGTCTTA TGGAGAGGTG CTTTAACTC CTCCTGCTTC CTGCTTCACA
148541  TCAATCTGGT CCGGAGTAAA GTCCCTGCCT CCGGAGTTCA CTCCTGCTTC CTGCTTCACA
148601  ACTGTATGAC ACTCTAGAAA AGACAGTAAC TATGGACACA GTCAAAAGAT TAGTTGATAG
148661  AAATTGGGTG ACAGGAAGTG TTGAAAAGGC AGAACACAGG ATTTT TAGGG CAGTGAACT
148721  TCTGTGATAC TATAATGGTG AATACATGAC ATTATACATT TGTCAAAACC CATAGAAAGC
148781  ACAACACCAA GAATAAACCC TAATGTAAAT TACAGACTTT CGTTGATAAT GACGTGTCAA
148841  TGTAAGTTCA ATTGTAATAA ATGTACTACT GTGGTGCTGG ATGTCTATGG TGGGGGGACA
148901  TTTTGTCTTC AATAGTTACA GTTGAAGTAA ATGTTTGTGT TTCCACAAT GCATATGTAG
148961  AACTCTCAC ATTCAATGTG ATGGTCTTTG GAGGTGGGCT CTTTGGGTGA TAGTTAGGTT
149021  TAGTTGAGAT CCTAGCAGAT CGAGTCTTCA TGATGGGCAT GATGGGACTG GTCCCTTATA
149081  AGAAAAGACC AGAAAGCTAG CTCTCTCTTT GCCATGTGAA GACATAGCAG GAAGGTAGCC

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149141	ATCTGCAAGC	TAGGAAAGGG	CCTTCACAAA	GAATCAACTC	AGACCTCAGA	ACAGTGAGAG
149201	ATAAATTGTC	GTTGTTTAAG	TCACCTCAGGC	TGTGGTATTT	TGTTTCAGCA	GCCCAACCTA
149261	AGACTGTTAA	TTGGATTAGA	AATTCCTTT	TGGGGATGGT	GTGTGGCGGG	GGGTGCGGGG
149321	AGTACCTTTG	TTAAGCTTTT	ATATCAATGA	GTTTGTAGGC	TTTTCTTTTT	TGGTCATTGA
149381	CTAGGACAGT	TTAAATAGTA	TGAGTGTGAA	GGAGATTGTT	GGTCATCTAT	TCGATGTCCC
149441	TTCTCTGTTT	TTTAATATGA	GAACCTCTGA	TTTTTCAGCCA	ACTACCCTGG	AAAAAAGCT
149501	AATCTTTCTG	ACTTCTTAAG	TGTGGCCATG	TACTAAATTC	TGGCTAATGC	AAGGCAAGCC
149561	AAAGGTTTTA	TGATAGGTTT	TAGGACACTA	GAGTAAAAGA	GAGCTGTTGC	ACACATGCTC
149621	TTCACCCTAC	TTTTGTGTCC	TTTTTTCCAT	CCTACAACCT	GGGTGTGAG	TATGATGGCT
149681	GGAACCTTAG	TGGCTCTCTT	GGATCCAGG	GGTAATTGAG	GGGTGGCTGG	AAGGAATCTG
149741	TGATTTTCTG	GAGTTTCCAT	ACACAAACAA	GACCTGGATT	TTCTGGGCTT	CCCAGACTTC
149801	CACATCTAGA	CTTGCTTTAA	ATGGGAGAGA	AATAAACTTG	TTTCAGCCAC	TGTCATTTTG
149861	GGCTATTTTA	TAGAACTTAA	TCTAATCTTC	AAGGGTACAT	GAATTGCTTT	TCCTTAAAAA
149921	AAAAATCAGC	CATAAAATCA	TCTTCTTTTT	TCTTTTGTTT	CCCACATTAT	TTAGTTGGAG
149981	CTCTGTAAC	TTTTTTTTTT	TTTTTTTTGA	GACAAGGTCT	TGCTCTGTCA	CTTAGGCTGG
150041	AATTCAGTGG	CATGACCATG	GCTCACTGCA	GCCTTGCCCT	CCTAGGCTCA	AGCAATCCCTC
150101	GTCTCAGCCT	CCTGAGTAGC	TGAAACTAAG	GCACATGCCA	CCATGCCCAG	CTAATTTCTT
150161	TTCTTTTAGA	GATGGGAGCC	TGCCCCAGG	TAGTCTCAAA	CTCCTAGCCT	CAAGTGATCC
150221	TCCCATCTCA	GCCTCCCAA	GTGACAGGAT	TACAGGTGTG	AGCCACCATG	CCTGGCTGCT
150281	CTGTAAGTGT	CTGAATTTCA	TTTTGTATTT	ATCAGTCTGT	TTAGATTTTC	TTTTCCCTCT
150341	TGGGTCAGTT	AGGCCATTGG	TTTCTTTTTA	AAGGTTTTCA	AATTTATTTG	CATCTAATTC
150401	TTCAAATTAC	TCTCAAAT	ATTCCAGTAT	ATATTCTTTT	GTTCTTATTT	TCTTCTGTAT
150461	TCTTTATTAA	AATAGCTAAT	GATTTATCTA	GCAGGACTTA	TATTCTTTCC	ATAACTTTCC
150521	TGCACCCCAA	TTAATCTCCA	ATTTTATATT	TCTTCTGGCC	TTCCTTATAG	TTTCCACAGG
150581	TTTATTTTAT	TCATTTTTTA	AAACTTTTAT	TTAATTGTTT	ATTTTATTAT	CATTCTTTCT
150641	TATTCAGCAA	TCTAAGTGCT	TAGGGATATA	GAATTTCCCT	TAAGCAGCAT	ATGCTAGGCT
150701	TTAACAATGT	TAGGGAGGCC	TCCCCTTTCT	GGGGAAGACC	ACACTTACAT	TAACACAGGA
150761	CTGTGGGATG	CCAAGAGGTA	GAGAAGAGCT	TATGAATATC	CAGATTACAT	CTTCACTGAT
150821	CCTGCACAAA	GGTGGGGTTC	CTCGGTTACC	CACTGGGTCC	TATTACCCAA	GTCTGGGTCA
150881	GCATACCGAG	ACTACGGGTA	TATAGAACAA	GTGCAACTGG	CGATAATCCT	TCTGTTGGGG
150941	AGAAAAATCT	TTTTTTTCTA	TTTCTCTTAG	GTTCTCCATC	TGTGGCCCTA	TCAAGTAGAC
151001	TAACAAAAGA	CAGATTGACA	AGACAGAAAC	AAAGCATGTG	CATTGTACAA	ACACAGGGGA
151061	GTACTGAGAT	GAATACTCAA	AAGAGGATTT	AGAACTTGGG	CTTATATAGC	ATTTTAAAGAA
151121	AAGAATACAT	TTTTTAAAGT	ACAAGGAAGA	CGAAAAGGAC	TTTGAGTTTC	TAGTGCAGTA
151181	AATTGTGGGA	AGGCAACTTT	TTCTTTCCCT	TTTTTTTTTT	TTTTTTTTTA	AAAAAAGAC
151241	TTCTCTGGTG	CTATGTCCAG	GCTGATAAGA	GTCTAAAGTC	TCTGGTGACT	AACTTTTGTT
151301	CTTCCCCGAG	TAAGAAGACA	CCTTCACAAT	TTCATATCCT	GCTTTTAGGC	AAACAGGGAG
151361	AGGGCAGAGG	TGTTTGTTTG	TTTTTAATCT	ATTTTTTTTC	TCAATTGTCT	TCAACTCAAA
151421	ATACTTCTTA	TGCCAAAGAT	GGCATATTCT	GCTACCCTTC	ACTTACTACT	TACAACCCAG
151481	CCTCTATCAT	CATAATTAGA	ACTTCTGACC	CTGGGGAACA	TGGGCAATAG	TTTGAACTCT
151541	TTTATATCTC	CCTTAGGCAG	AGATGGAGGC	CCAGCCATGC	CTCTGACATC	TAGACACAAC
151601	TGTTGCTTCA	TTTCTCCTAT	TCTCAGAGGT	GATGTTGTAG	GACTTCAACA	AATATCAGTA
151661	AACATTAATT	TTTTTTTCTC	TTGAGGCACA	GCATGATCTT	GGCTTACTGC	AGCTGCTGCA
151721	GGCTCAAGCA	ATTCTCCTGC	CTTGGCCTCA	CGAGTAGCTG	GGTTACAGGC	CCCTACCACC
151781	ATGCCCGGCT	AATTTTTGTA	TTTTTAGTAG	AGACAGGGTT	TCACCATGTT	GGCCAGGCTG
151841	GTGTTGAACT	CCTGACCTCA	AGTGATCCAC	CTGCCTCAGC	CTCACATAGT	TCTGGGATTA
151901	CAGGCGTGAG	CCACCATGCC	TGGCCATCAA	TTTTTATGTC	AACTCTAAAT	TATAACATTT
151961	AGCAATTTTG	TGACTTTTTA	TGGTCATCAT	TAATGTTGTT	TATGTTTTAG	TTGTAGTCCT
152021	GTCATTACTC	ACTCGGTAT	GGTAATTTGG	TCTTTTTCAA	AATGAAGTTA	AGGTCTATTT
152081	GCTCTTCTCT	GAATCATAAT	AAGAACTGCC	AACAGCCATT	TCAGCAATAA	CTATTTACTG
152141	AGATTTTAAA	ATATTTCAAG	GTAATTGGTC	CTAGCAGACT	GGAAAATACC	AAATCTTTTT
152201	CCAGAACTGA	ATCCCCCATC	AAAGTTCAAT	TTTACTCATA	ATTCCCTTTT	CATTTGAAGC
152261	ATCTCATTGT	AAGCCAGTCT	TAACCCTTCT	CTCACACTTT	GCTTGGCTGT	TTCTCAGGTA
152321	GAACCTCAGTA	AGTCTGGTAG	CCTCCAGGAC	TGCCGCTTAG	ATTATTAAAC	AACATGTCAG

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152381	TGGTTGGAAG	AGTCAATGTT	ATTTTGATTT	TTCTGTTTTG	TTTTGTTTTA	AATGCAGTTG
152441	GCGGATAAAT	GCAGCTTTCT	TTCATTCCCT	ACATGAGTTC	AAATGGCAGC	AAACAAACTA
152501	GGAGAACGCA	GACCTTCTGA	CTTGTGGGTA	CCCCTACTCA	TCACCTGAAG	ACCCTTGGAA
152561	ATCAAAGCCC	TGACCCATTA	AAGACGGATG	GAGACAGCAA	CATACGATCA	TCACTATTAT
152621	CTTGCTTTGC	CCCAGTCCAG	GTTAACCATC	TGTGGTATTT	TTAGTTGCTA	AGTCCATATA
152681	TTCAACATAA	ATCAATTATA	TATCCACTAA	AATCTCAGCA	CTAGTCTAAC	TACTAAGGAA
152741	ATGACAGCGA	AGAAAACAGA	CCAAACGTCT	GCCCTTATGG	GATTTATATT	ATTTTCTCTG
152801	TGCTGGTTAA	ACCAAGGAGC	TTCTGCTCTT	TTCCTTAGTC	ACCTGGGGGA	GGCAGAAACA
152861	AAGGAGAATA	TTGATAAACC	TGGAAATAGG	GCCGGAGAGT	ATCAGAGAAG	GAAGCCTTCG
152921	GGAAAGTAAA	GATGTGGCAG	CCAGTATTCC	CGTTATAAAA	GGATACAACT	CCGGCCTCAT
152981	AGTCCAGAAA	AATTCCCACA	AGCAGGGGCT	GCTCATGCAG	ATGAAGGGAA	GTTGGGGGAG
153041	AAGTAAGTGC	TACATAGCCT	TTCTTTTTGC	ACAGCCTGAG	GGTCCAGAAT	CCAGACTGAG
153101	GCTCTTGCTT	CATGCCAGTG	CCCCTCTGCA	CATTTTCCAT	ACAAACTCCT	AAATCCCATC
153161	CGGTTCCCTT	GCCAACATCC	ACTTCAAAGT	AACGTCTTCC	TGAGGTGAAG	CCTTCACAAC
153221	CCAAGACACA	GGGAAGGCA	GTAATCTCC	TGGAAGATGT	GTCCTGATTC	TCCTGGGTGT
153281	ATCCACGAGT	CACCTTGTCTC	CGATCCTCAG	AGAGAATTAG	TTCTGTATGA	GCTGTATCTG
153341	GATCCAGAGT	CACACTAACT	GCAAAAACAA	ACAAAACAAA	CAAAAATAAT	TTTGTGTCTG
153401	TGAAGAACAC	AGGTTATTTT	ATTTTATTTT	ATTTTGAGAT	GGAGTGTTCG	TGTCACCCAG
153461	GCTGGAGTGC	ACTGGCACTA	TCTCAACTCA	CTGCAACCTC	CACCTCCTGG	ATTCAGGCAA
153521	TTCTCCTGCC	TCAGCCTCCG	GAGTAACTGC	GACTACAGGT	GCGCACCACC	ACAATCTGGC
153581	AATTTTTTTA	AATTTTCTGT	AGAGATGGGG	TTTCGCCATG	TTGGCCAGGC	TGGTCTCAAA
153641	CTCCTGACCT	GAAGTGTTCC	ACCCACCTCG	GCCTCCCAAA	GTGCTGGATT	ACACAGGTGT
153701	GAGCCACCAT	GCCCAGCCAC	AAGTTATTTT	CAATAAAACC	AGCCTGTGTT	CAAACCCAAC
153761	TATTGTTTCT	TATAAACTGG	GTGAGCTTAG	GCAATCATTT	TAACTTTCTG	AGCCTCAGTT
153821	TGTTAACTAT	AAAGTGGAAG	TTACCGTATT	TGTTGCAGAG	AATGGTGGGT	AGGATTGAAT
153881	AAGCTTATGT	TTGCTTAATG	CTTGGTAAAA	TTCTTGGTAC	ATGGTAACCA	CCTAATAAGT
153941	GGTAGTTGTT	GGGGTGATCA	GGCCCAACAC	CAGGCCGTGG	GGGCTACAAA	GTCCGGCGGG
154001	GTCAAAGGAA	TGAGAAAAGA	CAAGTTAAGA	GTGCATAAAG	TGGGTCCAGG	GTGCCAGCAC
154061	TAGATTGGAG	GCTGCAAAGG	CCCTAAGCTC	TGGGAGCCCA	CACATTTTAT	TGGTGATCAA
154121	ACAAAGAAGC	AGGTGGTGAG	GACGTGAGGG	TAAACAGGTG	AGGGCATGAG	GACATGGGGG
154181	TAGAAAGGTA	GTGGTGCATT	AAGCGTAGCT	GTGACAGTTT	AGCATTTTCT	TTGACACATG
154241	TAGAATATAC	TCTGCTGCTT	GAGATAGTAG	AGGACACGTT	TATGAGTGAA	AAGCAAGGAA
154301	CCAACAAGTC	TGTGCACTTT	CCAGAGGCTA	TGAGGGGTTT	TATGCCCTGA	GCCCTGGGTT
154361	CCATCCAAGC	CACAAGGGGT	TTTATGCCCT	AGGCTTAGAT	TTGTGGTGCG	GCAGGGCAGC
154421	CTTCCACCAT	TTGGCACAGA	GCTTGGTGTT	CCAAAGGCCA	CGAGGGGTTT	TGGACCCTGG
154481	ACCCCGGACA	TCTTCCAAGA	CTCTTTTACA	TTATGACAGA	CAAGCCAGTC	CTGCTTCAGC
154541	TCTTCTAACA	ACATGTAGTA	ATAATGATAT	CATCAACATC	ATCTTCGTCT	TAATTATTCA
154601	AGGATGCCAA	GGTACAGAAC	TAACCTGTTA	ATATGGTTAC	CATCCTGTCC	AAAGTTCTTC
154661	TCCCATGCAG	GACTTCCAGG	AATCATGAGA	CAGTTGAGCA	GAAAGATACC	TTTTCCCTTC
154721	TCTACTGAAT	AACCACCAAC	ATTGAGAATC	AGAGAGGGAA	AATGACTCAG	CTAATGTCTT
154781	AGCTTGTTAT	TGGAAGACCC	AGGTCCTATG	ACACATGCCT	AGTCCCATGA	CTTTTAATTG
154841	TAAGCTCTTC	TCTTTCCCTT	CAGATAATGT	TCCATAAGCA	TTAGTATGAG	ATAATAATAC
154901	ACTGAGGACC	AATATACATG	AAAAATATCA	GACTAGAATC	AAACAAGACA	GAAAAAAGAT
154961	CTGATAACCT	AAAGTGAGAT	ACTGAACAGT	ATGCAGTTTT	AAAAATAAAA	AATGGTAATA
155021	GGATGTTCTA	ACAAGAGAGT	TAAGAAACCA	CTGTGCTACT	GAGTTAAATG	TTGATCAGTT
155081	GGTCTGTGAC	AATTAAGGAA	TTCAAGTATT	CAGAAACACT	TCCTGTGCTG	GATGCTCTCT
155141	GTTTGTTCTT	CCAAATAATC	CCTCACTTTT	CCCTGTCTTG	CTCTGTGCCC	AGGAAGGCTG
155201	ACATGGACAG	ATTAACCAGG	CTTTCCGCCC	TCTGGCTTGG	TTCAGCCAAT	GGGAAGCACC
155261	AGAGGAGACC	ATAGGGCACA	AAGAAGCAGC	CTTGGGAGTA	TTCAGTACCC	CAGTCCCACG
155321	CTATGATTTG	GAGGGTCTGC	ATTCTCTGTC	CTCTGGGCAC	ACTCTAGTAT	AGTTACAGCT
155381	CCCTACACCT	GCCACTTGAG	GCCCAGAGGA	GGTGATGGCT	CTCTAACTGT	TCCTAGTTCT
155441	GGGTGCTTCC	TGTTCTTTGT	GGATTTCCCA	ACTCCTCACC	TTTGTAAATA	CCCTCCTTTT
155501	TCAAACCTCTA	TTCAGTTAGC	TTTTATCAGC	CTGACTCACA	GAAGTTTGGG	GTTTCAATTC
155561	ATATTACCTG	AATGACCCAG	GAAAACCCAT	GTTGAGAAAT	TAAAATGTTT	ACGGGGTGGT

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155621	AATACCACTT	AAGAGAAAAA	ATATCAATTG	GATTTTTTAA	ATTCCACCTA	TCTATTGGTG
155681	TGACACATCA	ACAAAAACAT	ATAGAAAGAT	TGGAAGCTAA	AAGATAGATA	ATATAGTCAT
155741	ATACTGTTAT	AGTATTATAT	CAAAAGATAT	TAAGTCAGAG	CATTATTAAG	AATGGAAGAA
155801	GGGCCAGGTG	TGGTGGCTCA	TGCCTGTAAT	CCCAGCACTT	TGGGAGGCCA	AGGCAGGCGG
155861	ATCACTTGAA	GCCAGGAGTT	CAAGACCAGC	CTGCCCAACA	TGGCAAAACC	CTGGCTCTAC
155921	CAAAAATACA	ACAATTAGCT	GGGCATTGTG	GCACATGCCT	GTAATCCCAG	CTACTTGGGA
155981	GGCTGAAGCA	CAAGAATCAC	TTGAACCGGG	GAGGCAGAGG	TTGCAGTGAG	CTGAGATTTC
156041	GCCACTACAC	TACAGCCTGG	GTGACAGAGA	GAGATTCTGT	CTCAAAAAAA	AAAAAAAAGA
156101	AAGAATGAAA	GGAGTCACCT	AAAAAGATA	ACACAATTTT	AAACATAAAT	GTACTACATT
156161	ATTAGTGAAT	TCATGTTTAG	AATTGTGTTA	ATATACAAAG	CAAAAATTGT	AGAATTATAG
156221	GAGAAATGGA	CAAATCTACA	ATCATCATGG	GATGTTTTAA	CATTCTTCTT	TCCATAATTG
156281	ATAGATCAGG	CAGACCAAAA	GAAAGAAATA	AGGGAAGATA	CGGAAGGTCT	GAACAATCTA
156341	AGAAGCGCAA	TCTCATAGTC	AATACATAAA	GCTCAGCAAT	TGTTTTAATA	TAGTAAGCAG
156401	AGAATATGCA	GTTTTCTCAG	GTATAGATGG	AACATGCACT	AACTGAGTAA	ATACTAGGCA
156461	GAAAACAGTC	TGAACAAGTT	TCAATAAATC	TGTATTACAC	AGATCATTTT	CTCTAGCCCTC
156521	AATATAAGAT	TATAAACCAA	TAATAAAAAA	ATGACTAAAA	AGATTCTAAA	TATTAGGAAA
156581	TGTAAACTAC	TAATAAGTCA	TTAGAAGATG	TATAGAATGG	AACAATAATA	AAATGTTATT
156641	TATAAAAAATA	TACAATGAAG	CTAAAGCAGA	ATTTTAAGGA	AAATTTGTAG	GCTTTAAATG
156701	CTTATCTTAG	AAAAATTAAA	AAGCTGAACA	TTAATGAGCC	AAGCATCTAA	TTTAAATTTT
156761	AAAAAGAACA	TAGAAAGCCA	AATATAATTT	TTTAAAAAGA	AAAAATAGAT	ATTAAACAAT
156821	ATAACAGTGA	AGTTAAAGAA	AACAAGAATG	CAATAAAGAG	GAAAAACAAA	CAAAAAAAA
156881	AGTAGCTTCT	TTTAAAGAA	ATTTAATAAA	ATAGACATAC	CTCCAATGAG	ATTTATCAAA
156941	GTAAGACAGA	AGGCACAAAT	GGAATGAATA	CAGAACTTT	TTAAATATTA	CAGAAGTTTA
157001	TAATAAATCT	TATGCTACTA	ATAAAATTGA	AAGTACTGAT	AAAATTATTA	CTTCCTAGAA
157061	AAAATATTTT	TGAGTAAAC	TCACTCAAAA	AACAAATAAA	GCATGGGCAG	ACCTAACATT
157121	AAAGAAATGA	AATCACTACT	TTAAATTTTA	CCGACAGATA	ATAAACCGTG	CATCTTTATC
157181	AAGCAAAAAT	GGAACCTGTC	AGTTTTATAG	GAAATTTAGA	AGTCAAGGCA	TGAGTAATGC
157241	CAATCTCATA	CCAAATCCTA	CAAAGAATAG	AAAATTATGG	CTCCCGCTTA	TAGACATAGA
157301	TATAGAACTC	CTGCACAAAA	TAATATAAAT	AACAAACCAA	ATTTTATATT	TGCAACTATA
157361	CATATTATAT	GTGTATGTAT	TATATATGTT	AACATATACA	TATATAATAT	GTATAGCATA
157421	TGTTCTACAT	ATTATATATG	TATAGTGAT	GTATTTTACA	ATATATAAAT	GAAAACCCAA
157481	TCTTTAATAT	ATTCATCTAG	ATTGTCATAT	ATGACATATA	TAATACATTA	CATCAAAAAAT
157541	GTGTACAATA	ATCAGGCCAG	GCACAGTGAC	TCATGCCTGT	AATCCGAGCA	CGTTGGGAGG
157601	CTGAGGCGGG	TCAATCACTT	GAGTCCAAGA	GTTTGAGACC	AGCCTGGTCA	ATATGGCCAA
157661	ATTCCATCTC	TACAAAAAAT	ATGAAAAATT	ATCCAGGCAT	TGTGGTGCAC	ACCAATAGTC
157721	CCAGCTACTC	GGGAAGCTGA	GGTGAGAGGA	TCACTTAAGC	CTGGGAGGTG	GAGATTGCAG
157781	TGAGTCGAGA	TTGCGCCAGT	GCACTCCAGC	CTGGGTGGCA	AAGGGAGACC	CTGTCTCAAA
157841	AAAAAATTAA	AAAATTAGCC	AGGTATGGTG	GCCTGTTTCT	GTAGTCCCAG	CAACTGGGGA
157901	GGCTGAGGTG	AGAAGATCAC	TTTAGCTCAG	GTGGTGGAGC	CATGATCGCA	CCACTGTACC
157961	ACTCGGCTTG	GGCAACAGAG	TGAGAGCCTG	TCTCGAAAAA	ACAAATATAT	ACACACAGTA
158021	ATCAATATAT	ATATTATATG	TACCAATCAA	TGCTTCACTT	TTATATATAA	TATAGATTAC
158081	ATCTTATTAG	ATATATAGTA	TTCTTCTCTC	ATAGATAGAT	AGATACAGAT	ATAGACATAG
158141	TATCCTCTAT	CCATATTAGA	GAGAGGATAC	TATATATATC	TATAGCATAT	AGAGATGCTG
158201	TCTCAAAAAA	ATTTAAACAT	CAGCCAGATG	TGGTGGCCCA	TGCCTGTAGT	CCCAGCTACT
158261	GGGGAGGCTG	AAATGAGAGG	ATTGCCATTG	ATCCTCTCAT	TGGTTGAGCC	ATAATCGCAC
158321	TACTGCACCA	CTCAGCCTGG	GAGACAGAGG	GAGACCTGAG	GTGGAAGGAT	ATAGATATAG
158381	ATATATAAAT	AAATATGTAT	AGAGAGAATA	TAATATATGT	GTGTATGTGT	ATATATATAT
158441	ATTATGAAGA	CACTGGGAGA	GAATACTATA	TATATATGTG	TGTGTGTATA	TATATATTAT
158501	GAAGACACTG	GTGGGATGGT	TTCATTACCA	ATTGGACCAA	GAGTCCAGGT	ATGGAGCCAA
158561	CATGCAATGT	TGTTGTTGAC	TGAGCTGGCA	GAGCACTGGT	CATAGTTACG	GGAAAAGAAG
158621	GTCTCCAATG	AGACATACTT	AACAAAATAT	ATGAACCTGC	CATATACGTG	GAGAGTTCTG
158681	GTGTGTATAT	AGCCTTCTCT	CACCAACCTA	GCAATTGTCT	TCATCATCAT	TATAATGCTA
158741	TCAGAGCAAA	GATGACAGCT	AAATTTTTTT	GTCCCTTTCT	TCTTCTTTCT	CTTCCTTCCC
158801	CTCCCCCACC	TCTTTCTCTT	CCTCCTCCTC	CTTCATCTCT	CTTCTTTTTT	TTTTTGAGAT

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158861	GGAGTCTTAC	TCTGTCGCTC	AAGCTGGAGT	GCAGTGGCAC	AATCTCAGCT	CACTGCAACC
158921	TCTGCCTTCT	GGGTTCAAGC	AATCTGCCT	AAGCCTCCAG	AGTAGCTAGG	ACTGCAAGTG
158981	CACACCACCA	CACCTGGCTA	ATTTTGTAT	TTTGTAGTAG	GATAGGGTTT	CACAATGCTG
159041	GCCAGGCTGG	TCTCAAACCTC	CTGCCCTCAA	GTGATCCTCC	TGCCTCGGCC	TCCCAATGTG
159101	CTGGGATTAC	AGGCGTAAGC	CACTGTACCC	GGCCTCCTCC	TTTAATAGAC	AGGGTCTAGC
159161	TCTGTTGCCC	AGGCTGGGTA	CAGTGGCGTG	ATCATAGCTT	ACTGCAGCCT	CGAACTCCTG
159221	GGCTCAGGAG	ATCCTCCTGC	CCTAGTCTCC	CCAGTAGCTG	GAACACAGG	CATAGCACAC
159281	GGGGCTAATA	AAATTAATTA	GGTGATAAAA	TTCAGTCCCC	ACTGATGACT	AAGCTCTTTG
159341	GACATAAAAG	ACACAGACCT	TGAAGGAAAA	TGTGTCTACT	TAATTTTGAA	ACCCTATTTA
159401	TCAAAAAACA	GGATGAAAT	GCAAAATGCC	ATCCACATGC	CAGAAGATAT	CAGCTATAAT
159461	AAGTTCCCAT	AAATCAATAA	GGAAAAGAAC	CCAATAAAAA	TTATTAAACC	ACAGTAAATC
159521	ATGGGTAAAT	CACAGAGGCC	TGAAGGGCTA	ATGGACATAC	AAAAAGAATC	TCAATCTCAC
159581	TAGTGAAATC	AGAAAAGCAC	AAATTAAGTA	CACAATTAGG	TACCATTTTA	AATCTGTAAG
159641	ACTGTCAAAA	TCATAAATTA	TATAAGTAAA	GAATTCAGGA	GTTTGGAGG	AGTGAGAGCT
159701	CTTATATTGC	TTGTGGGGTA	GAATTTGAAG	AATTTCAAGA	TCTGTAGTAT	CTGGTAAAAAT
159761	TATGATATGC	ATCCCTCACA	CCAGCATGTC	ACTCCAAGGT	ATCTCCCTG	AGGGAACATT
159821	TACGGGACAC	AAGGAAGCAT	GGATAAGAAT	GTTCACAGTA	GTATTGTCTG	CAACAGCAAC
159881	AACAACAAAA	AAACCCAAC	ACACACAAC	TCAATGCCCC	GTCCACAAGG	CAATGGATTA
159941	AATAAACTTC	AGGCCGGAGA	TGGTGGTTCA	TGCCTGTAAT	CCCAACACTT	TAGAAGGCCG
160001	AGGCGAGAGG	ACTGCTTGAG	CCCAGGAGTT	CAAGACCAGC	CTGAACAAAA	TAAAGAGATA
160061	GTGTTTCTAC	AAAAAATTTT	TAAAAAATTA	GCCAGACGTG	GCAGTGCTTG	CCTGTGGTCC
160121	CAGCTACTGG	GGAAGCTGAC	GTGGGAGGAT	TGCTTAAGCC	CAGGAATTTA	AGGCTGCAGG
160181	GAGCCATGAT	GGGGCCATTG	CACTCCAGCC	TGGGTGACAG	AGTGAGACCC	TGTCTAAAAG
160241	AGATAAGTAA	ATAACAACCT	TGCATTTTCT	GCCACATTGC	AAAATGGTGA	GAGAGTGGTT
160301	TCTAGACTCT	AGACTCTTTC	TATGACTACC	TTCTAGTTAT	GAGATCCTAC	AACACTCACC
160361	TAACTCTCT	GTGTCATATT	TCCTCCTCTA	TAAAGCAAAA	ATGCCCCATA	TAGAGAGGAC
160421	TGTGATATAA	AACAAGAACC	AAGAAAAGTA	AAGCTTTTCT	AATCTGTCAC	AGACTAAAGA
160481	GTGCTCAGTA	TATGTGAGTC	ATTATTCTCG	TGCTGGTAG	GAGTGTATGT	TACAACTTTG
160541	AGTCAAGTAA	TATGGTACCA	TATATTAAGA	TTAACAACAA	CCTCGGCAAT	CCCAGTTTGG
160601	GGTATGTTCC	CAAAAAGAAAT	GAAAGCACCA	GGATATAAGG	ATGCATGGAC	TAGAAAGTTA
160661	TTGTAGCAAC	ATTGTAATAA	CTAAGTTCTA	AAAACAGCCT	GAAGCTCCAT	CAGTAGGGAT
160721	ATGGTTACAT	ATATTTATTA	TATTCCTATG	GAATATTAGA	CATAAAAAAGT	AACGAGTAAC
160781	ATAGAAGAGA	CAGTGTATAT	ATGTTACGTT	TGTACAAACT	TAGGGAAAAGA	TATAGATCAC
160841	CCTACCTAGA	GAAGTCAGAT	TGGAGAGGGG	TGGGAAAAAC	CTTGAACCTT	CTCCTTATAT
160901	CCTTTATATT	GTTTGACTGA	TTAAAATGTA	TTTGTGTCAT	CTGCTTGAAG	GCAATGTAAA
160961	ATAAAATAAA	CATACATTTA	AAAATAAAAA	TAAAATTTAT	TCCTATCACT	TTTGTAAATA
161021	AGCTGGGCAC	AGTGACTAAC	ACTTGTAATC	CTAGCACTTT	GGGAGGCAGA	GACAGGCAGA
161081	TCACCTGAGG	TCAGGGGTTT	GAGACCAGCC	TGGCCAACAT	TGTGAAACCC	CATCTCTACT
161141	AAAAATACAA	AAATCAGCCA	GGCATAGTGG	TGCGTACCTG	TAATCCACAG	CTACCCGGGA
161201	GGCTGAGGCG	CTGGAACCCG	GGAGGCAGAG	GCTGCAGTGA	GCTGAGATTG	CGGCACTGCA
161261	AGCCAGCCTG	GGTAACAGCG	AGACTCCATC	TCAAAAAAAA	ATTTGAAAAA	AGAAAAATTT
161321	TAATAAACAG	TGTTTAAGAG	GGGAGAAATA	TTTAGTTAAA	AGATAAGCCC	ATTTAAGAAA
161381	TAGTTTCACT	TGACCCGGAA	GGCGGAGCTT	GCAAGTGAGCC	GAGATCGCAC	CACTGCACCTC
161441	CAGCCTGGGC	GACAGAGCGA	GACTCTGTCT	CAAAAAAAA	AAAAAAGAAA	GAAAGAAAGA
161501	AAGAAATAGT	TTCACCTGAA	CCATATTATG	ATTCCTTCTG	TAAAAGATGA	GAGTAGGCAA
161561	ATTGACTCAG	TGAAATCCCA	GCAAACTTA	CACAAAGTCT	TGTTCTTCCT	TCCTGTCATC
161621	TGTATAGGAT	GAAATACAGA	GTGCTTTTGG	GTTTTGTTGT	TGTTTGTGTT	TGTGTATTTG
161681	AGGGGAACAC	AGGTCTATAA	TTCCTTTTCT	GAAATCCCTG	GAACAAAATG	GGCTTTGCCA
161741	TTCAAATTAG	TTTAGAAGTT	ATAAAGGCAA	AAAAATGCAT	ATACTCTAAA	GTTCAACCCC
161801	ATCATGGCCT	AAGGCAGAGC	CCTGTAATCA	AATTCATCAA	TATATCTGCA	GCAAAACATT
161861	TATTCAAATT	AAGTGGGATA	AATAAAGACT	TTTAAATAGT	CTCATCTCAG	TGCCGTTTCTG
161921	GGTTGGCCAC	TGTGGAAGAC	AGACTCAAGG	GTGGCCTTCT	ATGATTCTCTG	CCTCTTGGTG
161981	TTACACCCCT	CGTAAAATTC	CTTGTCTTTG	AGTGTGAGCA	GGGCTTATGA	ATTGCTTCTG
162041	ACCAATAGGA	TATGGCAAAG	ATGATGGGAT	ATAATTTCTA	TGATTACGTT	TCATTATGTA

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162101	AGACTCCATC	TTGCTGGCAG	ATTTTCTCTA	AAGAGTCTGT	CTCCTGAGCT	CTCTCTGAAG
162161	AAATAACTGG	CCATGTTAGA	AGCCCATGTG	CAAAGAGCTG	AGGGGTGGCC	TGTAGAAGCT
162221	GTGGGCAACC	TCCAGCCAAC	AGCCAGAAAT	AACCAGGGCC	AAAGTCCTGC	AACCATCAGG
162281	AAAGAAATTC	TGCCTGCTAT	CTCAGTGAGC	TTGGAAGTGG	ATTCTTCCTT	AGCCTAGCCT
162341	CCAGATAAGA	ACACAGCCTG	ACCAACACCT	TAACATGCAGC	CTTATCAGAC	CCTAAGCAGC
162401	AGGCCCAACT	AAGCTGTGCC	CAGATTCCTG	AACCACAAAA	ATTGAGATAA	CATATCAGTG
162361	TTGTATTAAG	GTTCTAAATT	ATGGTAATTT	GTTTGTAATA	ATAGATAACT	AATATAACCA
162421	CCAAATCATT	TCAGGTTAGG	CCAGATTTTT	GTAGCCAAAT	GAATCATGAT	AAAACCTTCC
162481	ATTTTCAGGG	GTTTTTTTGA	TTTTGTACTT	ACGGATACAA	ATTTGTGAAA	GTATAGTCAG
162541	CACTGATTTA	AAAAATCAAG	GGAGCAGGAA	ACTCAGTAAA	TGGTTCTAAC	ATTTTGGAAT
162601	CTGTAAATTG	GTTGTAAACAT	TTGTCATCTG	TGTTATCTAA	GTCAAGTTCC	TAAAATATGT
162661	GAATGATAGG	TTATCATACT	CACCTACTTT	TCTTGCATTG	CTCTAAGAGT	TGGCTGAGCT
162721	ATTGATAATA	AACACTATGA	TCAGATCTAA	TACCATGATG	TGCTATTATG	ATCATGTGTC
162781	AGTCACAGGG	CTAAGCACTT	TGTACATGTT	GATGCATTTA	ATTTTGATGA	TAACTCAATG
162841	AAGTAGGAGC	TGTTAATATT	TTCATTTTTT	AGAGGGGGAA	ACCAAGTCAC	TTGGAGTAAC
162901	ATGGCTAATA	AGTGAAAGAA	TAAGAATTTG	AAAGGTTTGC	ACAGATAACC	AGAATGCAAT
162961	GCTCATCACA	TTCACTGAGC	AGTGAATCAT	ACTAAGTAGA	GAAAGTATGA	AAGCTCTACT
163021	GAAATTAAC	AAACAACCTC	TCTGGCTGTG	AGCCTGCCAA	GGGACAGGTG	GTAACTTGG
163081	TTACTGCATA	AGGCCCTTTC	TATCCACAGT	ATTGAGGAAT	TCTTTAGTGA	ACATACCTTG
163141	ATGACTCCTT	AACATTTTCT	TCACATCGAA	GTAAAGCTTG	GAAACATTG	ACATAGTATG
163201	AAGTTCCAAG	GAGACAGCCT	CTGATGTTTC	CAGCTTCACA	GCCCAACTCC	TAGAATAAGC
163261	AGAGGCGAGA	GATTTCTTCA	GAGGTGCATT	CCATTCATTT	CTATATACGC	ACACCCCTCC
163321	CCTCCTGCAT	TCAAACAGGA	CTTACCTGCT	CAAAGTGTC	TTCACATTCT	ATAAAGAAAC
163381	AAAAAGAAAA	GGTGAGCATG	GGAACATCGG	TATTTTCATG	GGCTTGTCAT	GCAGGGCTAT
163441	TCTTCTTTGC	TTTACCCGAA	GAAGTAAAGA	GAGTTACCCT	AGTCTTAGTC	TTAGATATTG
163501	ATGGATACTC	AAACAAAGTA	ATTCCCACCA	GTCTTAGGTA	TTGATGGATA	CCCAGATGGA
163561	ATAATTCCTA	CCAGCTTCTG	GGAGATTGAG	CATGGCAGGA	TGTTTATCAA	CATTTGCATC
163621	TATTCTCATC	CTTGCTGAAG	TCTGAGGGCC	AGGAGCTTTG	TCCATGCTCC	CTCTGTAAGG
163681	ACTAGCTTTT	GGTGATCGGA	TTCCCTTCAC	AGTGAGCCCA	GATTAGAGAA	CACTTATCAT
163741	AAAGGTCTCT	AGTGGTGAAT	CTGTGCACAG	CCCTGAGACT	GGGCCACTGC	CACTAAGATG
163801	GTGGTAGCAG	GTATCACACA	GTGGTAAAGC	AATCATGCTA	TACACTCAGC	CTTACAGTAT
163861	AGTCACCAAT	CCTGTTAGTT	AGAACCAGAA	TTAATGGCTC	CAGATGTTTA	TCTTCCTACA
163921	GATAAAGCTG	TAGATTGTAC	CATAACAGCT	CTGGAGCAAG	GGTTCTACAA	GCAAATCAGG
163981	GAAAAGGTTA	TCACTCATTT	TGGCTGCCCC	ACTTCATCAC	CCATCAGTCA	CCTAGTGGAG
164041	TATTTTCAGGA	GAGAGTCAAC	AACCAGGGTT	CTCTGCACAT	GGGCCAAGGA	GGCAAACAGT
164101	GGTAAATGTT	ATCCCGTGGT	TTCATTTGGC	CAAGCTGTGT	TCCCTCAGAA	GTTTATTTTT
164161	CTAATTGACA	TAAAGGTACC	CTATAAATTA	GTGAAGGCCA	GCCTGATGGC	ACTGATGTAC
164221	ATCTAAAAGA	AACATTACTT	TATCTTCCCA	TGCTTCCTTA	CCATTCTCCT	TTAATAGCAC
164281	TATAACATAC	CTTTTTTCCC	TACTCCAAGT	ACACAGCCTC	ACCTGCAGCA	ATTTCTGGGC
164341	TGAGCCCTGA	CATTTTTTCT	CCAGTTCCAG	GATGTGGCTC	TTGAGTTTCT	TGCTCTTCAG
164401	CCCCAGACCA	GCCTCATAGT	CCCTCAGTCT	ACTCAGAGTC	TGTTGTTCTT	CTTCTCCAG
164461	CCTCCAGAGA	TAAGACTTCT	CTTCTCATG	TAGGAAACAC	TGGAGATTCT	TAAAGTCAGA
164521	CCGGATTTTT	TGTCTCTGAA	TCTGTACCTT	CTCCTGGAGT	CAAGAAAGTA	TGGTCAAAAG
164581	GTGGAAGTAA	ACCAAATGTC	CATCTATGGA	TGAATGGATA	AACAAGAATG	AAAGTCTGAC
164641	ACACGCTACT	ACATGACAAG	CCTTGAAGAC	ATTCAAGCAA	AATAAGCCAG	AAACAAAAGG
164701	GCAAATATTG	TAAGACTTTG	CTTATACAAG	GCATCTGGAG	TAGTTAAGTT	CATAGAGACA
164761	GAAAGTAAAA	TAGTGGTTAC	AAGGTGTTGG	CAAGACCAGA	AAATGGACAG	TTATTGTTTA
164821	ATGGGTAGTG	AGTTTCAGTT	TAGAAGATGA	AAGATGAAAC	TGAGTTGCAG	TTTGGAGATG
164881	GGAATGGTGA	TGGTTGCACA	ACAATGTAAC	AATGTAAAAG	CACTTAATTC	TACTGAACTA
164941	TATACTTAAA	AGTGGTTAAA	TGCTTAAGTG	TTATATATAT	TTTCACACAA	ACACACACAC
165001	ACACACAATC	AGCCACTGGG	ACATTATTTT	CTCATGAGTC	ACTGAAGCTG	GAAGAATGTC
165061	CCCAGTTTCC	TGCTGCAGAG	TCATGTGTGG	GAGGCAGGCA	CTCAGATGTG	GAAGAGGTTG
165121	CCTCAGATTC	CTTATAGTCA	CCCAATTAAT	TTTCTTGTTT	TTCAGCCAAG	ACACAGGAGA
165181	AAGCTGGGTT	AGGAGTGCTA	GATAATTTAA	TTGTGAAACT	AGGGCCAAGT	TCAAACACTT

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165241	TATCAGTTAC	AAGGATAAAA	AGAGGTTTTT	ACTTATGATT	TAAGAAGTTA	GATTTCTGAG
165301	TTGGAGCGAT	TTTCTTGAAG	TAAAAGCTTA	TAATGAACAT	CACCCAGACT	GGATTTTAAG
165361	ACAACCAGGC	TGGTAAGAGG	GTCCATAATT	CTTGGCAGGG	GGAGCTTTGA	GTGTGACAGG
165421	CATTTATTAT	GGTTAACTGA	GAAATACTGT	TCTACTACCC	TAGGGTCATC	TTAAGCATTG
165481	CTATGTGTAA	GACTGACAGA	AATCAAGTGA	AACTCTCATC	TGAGGAGATG	TAAAGTTGCA
165541	ATTTCCATTA	GTGCTGTCTA	AATTAATGCA	GTGGGAGTGT	GTATTCAGGG	CAATTTGAAT
165601	CTATGTTCTT	GGATTGCAGT	CTTCAAACCT	GGCCCAAATA	AACTCTCTAC	TTATCTTAAA
165661	AAAATAAAAA	TTAAAAAATA	AAAATAAATT	CATACAGTGT	TTTGATGACT	ATGATATAGA
165721	AGAAGGGTCT	TTGACTTAGG	ATGAGGTGGA	ATTTTTGTGT	AGGAGACAGG	TGCAGCTTTA
165781	ACTCTTGAT	AGACGGGTTT	TCATATATGT	TAGTTACAAT	CAAGGTCTTC	CCCATTGCCC
165841	AAGATCCTAG	AAATGGGGGA	AGTAAGAGTG	TACTCAGGAG	CTCAAGAGCA	ACATCCACAA
165901	ACAAAGATCA	GGGTAGAGGT	TAGAGAGGAC	TCCTGAAAGA	GAGAAAATTG	GTAATCAGCT
165961	TGTGGGATTT	TACTGCAAGC	TAGTGAATTA	TATAAATATA	AAGATTGGTG	CAAAAGTAAT
166021	TGTGGTTTTT	GCCTTTACTT	TAATGGCAAA	GACCGCAATT	ACTTTTGCAC	AAACCTAAAT
166081	ATTTCCATAA	AAGAATGTGG	CTCTGATAAT	GTGGAGGTTA	GTCAGCCACG	GAAATAATCT
166141	GAAAGTTTGT	AGTTGCAAGT	GTGTAGGTTG	TTGCATTACT	TGTGATGTAC	TTATAAATCA
166201	GATATAGGCC	GGGTGCAGTG	GCTCACGCCT	GTAATCCCAG	CACTTTGGGA	GGCTGAGGTG
166261	GGTGAATGAC	GAGGTCAGGA	GATCAAGACC	ATCCTGGCCA	ACATGGTGAA	ACCCCGTCTC
166321	TACTAAAATA	CAAAAAATTA	GCCAGGCAATG	GTAGCACATG	CCTGTAATCC	CAGCTACTCA
166381	AGAGGCTGAG	GCAGGGGAAT	TGCTTGAACC	CGGGAGGTGG	ACATTGCAGT	GAGCTGAGAT
166441	CGCACCCTA	CACTCCAGCA	AGACTCCATC	TCAAAAAATA	GTAATAATTT	AAAAATAAAT
166501	AAATAAATAA	AGTATATTTT	TTTCATCAGC	TTCATGAGCT	TGAGTAGATT	GAATTTCAAT
166561	CTGGAGTGAT	CCTGTTTTCT	AAGTGTTTCA	AAAGCTTGGT	TTCTGTACCT	GTAAAGTTGA
166621	GAGCCAGATG	CTCCACTGTG	GTAAAAGTGC	CAGGGTAATG	AGTTGAGGCC	TGCAAACCAG
166681	GTTTTATTTT	AGGTATTTAA	AGTTTGAGAC	CCACTCGATG	CTTTTTCTAG	GTAAATAGTC
166741	ATACTAATTC	TGCTTCTTCT	GACTGAAGTA	TCAGGAATCC	CAGCCAACTA	CAGTTTAAAG
166801	ATGGAAAGAT	TGGTGCTAAA	TACTCATGGA	TGTAAACCTG	GAACCAGGGG	CATAAGTACA
166861	AATAATGGTT	TCTTCCTTGG	GTTTCATTTT	TTCAATCTGG	TTTAGTGAGA	ATAAATCCTC
166921	ATTGTGCTTT	TCCTCAATCA	TCCCCTATGC	CTAAGCTCTA	GAATGGAAAA	TAGCTTGAGA
166981	TCAATTGAAGT	CAGATTCTTA	CTTTCCATTT	AGTTATTTCG	ATTGCTGTGG	ACAGCTTCTG
167041	CTCCGTACAT	CTGTCTTCAA	GTTGCTTCAG	TTTTGTCCAC	GCTTTCTGGA	GCTTTTCTCT
167101	AAGGAAAAAT	TTGATAAGTG	AAGCCTATTC	AATTTGACTC	TTCATTAGGG	ACCTAGGGGG
167161	AATCCCAATC	TTCTAAGATA	TATTTGAATA	ATAGTGAATA	TTTATAGAGT	CCTCATTGTT
167221	TTTTGCTAGA	GAGCATGCTA	AAGGCTATAT	GTGCAGGAAC	ATACTGATCC	CCTTGGAAC
167281	CCTGAATAGT	TGGTAGGATT	TTAAACTTCA	TTTCTGTGCT	GTAGAAAAATG	AGCAATAAGAA
167341	AGGGGTAAAA	TAACCTGCCC	AAAGGGCTAT	GACTGCCAGG	TGGTGGAGCA	ACAATTGCAA
167401	TCTCATCTGC	TGACCCAGAG	CCTGAGCTAT	GTCCACCACT	AGAGTCCTGC	CAGGAAAAAG
167461	TTGGATATAG	AACAAGGTAA	TCATCATCTA	AAAGATTTTG	TAAAACAACA	TGCTGAACCA
167521	AGCAAAACCA	ATACCAAGTG	TTGGCACACA	TGAAATTTTG	TGTCTTATGA	GTCAGGAAAA
167581	ATCAGGATGC	CAGCTGGTTA	TTAGAAACAG	TTCATGGAAG	AGGGGAATTC	TGGTATCTTT
167641	TGAACAATGG	TATCATGAAT	CCAATTTAAA	ATGATTTAGT	ATTCATGTCA	AGCTTTTAGC
167701	TTATTCTTCA	AAACAGTTTC	TCATATTTCT	ATTGAAAGTG	ATTTGAAGCT	GACCCAAATT
167761	GCTAATTGTA	GTCAATGCTG	AAAGAATTGT	CTCCTGTCCT	CTGTAAACCC	AACAAGTATA
167821	CTCATTCATT	CTCGAGTGTT	CTCAGGAAAA	GGTTCATATG	AACTGTTTTA	GCAAAAGATG
167881	ACATTGTCCT	TACTATATGC	CAAGTGCTAT	TCTATGCATT	CTATATTTTA	ATGTCCTCAA
167941	AGCTTATAAC	CACCTCCTGT	GATGTGTTTT	TAGGGAGGGA	GGACACTGCT	ATTATCCCCA
168001	TTTACAGATG	GAGAAACCAA	GGTGTGAAGA	CATTAAGTAA	CGTGCCCAAC	ATTGCCCCATC
168061	TAGTAAGTGA	CAAACTCAA	TTTCAACATA	AGCTGGTTCC	TTTTCTTACT	ACTGGGTGGA
168121	AAAGTAATTC	AAATGGGAAT	ATGATCATCG	CAGTTATTAG	CTGCTCCATG	GAGTTTAAGG
168181	AAGAGCTGCC	ATGAGCTGAG	TGGTGGTCAT	GATTGACATG	TCCTTAGAAG	GACTTAGAGC
168241	CTTCATACAA	GACCACCTCT	GCCTCATGGA	GGACAGAATA	AGGAGCCTGA	CACTGGAGAC
168301	AACATTTTCC	TCAAATTTAG	GCAGGACAGA	GAAGGAAAAA	GGACATCAGG	ACTATGCCCA
168361	TTCTCCCATG	CTGCCAACAG	CAAAGTCCCA	CCTTCCTTAA	TATGCTTTCT	GGCAAGAAAT
168421	CTGGATGGTA	CACAAAACCT	CTCCCTCTGC	TTCACCTTCC	ACAACCAAGC	ATTTCCAAAT

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168481	CTTTGACTCT	TCTTCCTGAA	TCGTGCTTAA	AATCTGCCCT	CTCCTCCCTT	TCTTATACGG
168541	ATAGTTTGAA	TTTFACTCCT	TGATATTCCT	TTTATCATAG	ACATGCCACA	GTAGCTGGGC
168601	ACAGTGGTTC	ATGCCTCTAA	TCCCAGCATT	TTGGGAGGCT	GAGATGGGAG	GGAGACCAGG
168661	GGTTTGAGGC	CAGTATAAGC	AAGAAAGGCA	GACCATGTCT	CTACAAAAAA	TAAAAAATT
168721	ATCCAGGTAT	GGTGGGGCAT	CCCTGTAGTC	CTAGCTACTT	GGGAGGCTGA	GGTGGGAGGA
168781	TTGCTTGAGC	CCCAGAAGGT	TGAGGCTGCA	GTGAGCCGAG	ATTGCACCAT	TGTACTCCAA
168841	CCTGGGATAC	AGAGCAAGAC	CCTACCTCAG	AAAAAAAAAA	AAAAAAAAAA	AAAGTAGAGG
168901	TACCAGAGTG	ATATTTTCAA	TGTCACCTGAC	CCTTCATTCC	CCAAATGAAA	ATCCCCCAAT
168961	AGGTGTTCAA	TTTTTACGTG	TCCTTCAGGA	GTTACTTCTA	AGATGAACCA	CTCTCTACCC
169021	TAAATGTCCC	TCCCCACCAC	CAAAACCAGG	GACCTCCAGG	CAGACATTTT	TGATGGTTTG
169081	TTTTCTTTAC	TAGACTGTAG	ATACCTAAAA	GGTGATGGGT	CTTCTTCCCC	TGTTTTTCAGG
169141	CCCTACTGCA	TGGCTTTACA	TATTGTGGTT	TTTCAAATGA	TATTCATGGT	GTGAAACAAG
169201	AAAAAATGCG	GGTGTTTGGT	TTGAGAACAA	CCTGTTCTAA	AGCAAAAAGA	AATTCATCAT
169261	AACACAAATG	GATAGAGATA	AGAGTCCAAC	CATCCCATTG	AAGGTCAGGA	TGGACAGTCT
169321	AGATAATTGA	GCAAGAAATC	ATCATAAACT	ATTTTTTCTA	AGAATGACAT	GATGAAAGCT
169381	GTATTTCCAA	GTCATAATGT	TAGGTTTCAA	GTTAAATCAT	CTCAGCTCCT	GGGGAGCAGG
169441	ATAAGACTTG	GTAATTACCA	AAGCTCCCGG	GCCCACACAC	TCACCTTGTA	GCCCTGGCAT
169501	ACGTCTTCAA	CAAGAGCTGT	GGTGTGCCCT	TTGTGCTGTG	GTGCCCGCTC	ACAGCGCCAG
169561	CAGATGAGCT	GCCCCCTCATC	TTCGCAGAAC	AGGTGGAAC	GCTCTCCGTG	TTCTCTCACAT
169621	GACATTTCTT	GATCCGTCTC	TTTGAGGGCT	TCAATGAGGC	TTCCAGCTG	CTTGTGTGGT
169681	CGGAGGCTAT	CCATATGAAA	TGGAGCCCGA	CACTGGGGAC	AGCAGAAATG	CTCCTGCCTC
169741	AGTTGCTTTT	GGCTTGGGTT	TTTAAAGAAG	TCTGTTATAC	ACAAGTGCCA	GTAGCTGTGT
169801	CCACAGTTGA	TGCTTACTGG	GTTCTGTCATC	AGGCTCAGGC	AGATGGAGCA	GGTGGCTTCC
169861	TCCATCATCT	TCTTGGTGCT	GGTGGTTGAG	GCCATAGCTT	TTATTGAAAA	GCTCCAATAT
169921	TGGCTCTAGA	GATGGAGATG	AAGCAGCCAG	AATTTTCCAC	CGTGATGAAA	ATACACCTCA
169981	CCTGCACCTC	TATGTGATGA	GCTGGCTGCA	ACTGACTTCC	ATAGGTCTTG	AAGGTTTTTCC
170041	TTCCAACCCC	TATTATCTCA	TTTTGTATTG	AAGAAAAGAG	GACCTAAAAG	GAAGAAGTTG
170101	AGGCTGAGGT	TGTTTGGGCC	ACGTTTGAGA	ACTGCAACCC	AAGTGCAGAG	TTTCAAGTTG
170161	CCCTCATTAG	CAAGCAGTTA	CAAGTGGTTG	TTTAGAGGAA	AAAAAGCAGT	TTTAAAGCAG
170221	TTTTAAAGTT	GTTTGCCAAG	AATTTACATT	AAAATAGCAT	AAGCTTTTGA	CTGGCTATAC
170281	ATTGTTCTTT	GTATTACAAA	TCTCGGGAAT	ATGTAGGTAA	TAGATGAGGC	AGCCAGTCAG
170341	GAACAAAATG	CTTTTAAACA	TGGGGTCTTA	ACTGAAGACC	TATACTCCTG	CCTCACTTGT
170401	CCTGATAAAT	TTTGATATAC	TCACATAGCT	CAGACTGCTC	TAAATTATTT	CATTATTTTT
170461	CTTTTCTCAG	TCTTCTAACT	TTTTTTTTTT	TTTTTAATGA	GACGGAGTCT	CACCTGTGCA
170521	CCCAGGCTGG	AGTGCAGTGA	CGCTATCTCG	GCTCACTGCA	CCTCCGCCTC	CCGGGTTCAA
170581	GCGATTCTCC	TGCCTCAGCC	TCCCAGTAG	TAGCTGGGTC	TACAGGTGTG	CACCACTACG
170641	CCCAGCTAAT	TTTTGTATTT	TTAGTAGAGA	TGGGGTTTCA	CCATGTTGGT	TGGCTAGGAT
170701	GGTCTCGATC	TCTCGACCTT	GTGATCCACC	CGCCTCAGCC	TCCCCAAGTG	CCAGGATTAC
170761	AGGCATGAGC	CACCGTGCCC	AGCCTCTTTT	TCTTTTCTTA	TAAGACAAGT	TCTCGCTCTC
170821	TTGCCCAGGC	TGTAGTGGAG	GGCAGTGGCA	TGACCACAGC	TCACTGCAGC	CTCGACCTCC
170881	TGGGTTTAA	CAATCCTCCT	GCCTCACCC	GGCAGAGTGG	CTGGGACTAC	AGGTATGTGC
170941	CACCATGTCC	AGCTAAAGTC	TTCTCTCCAG	AAAGAAGAAA	TGCATTGGAA	TTTAGAGGAT
171001	ACACAAACAT	CTAGCTGTAT	AGCTAATACA	GTAGCCACTA	TCATGAGTAG	GAATTTAAAT
171061	TTAACTTAAT	AAAAATTAAA	ATGAAAAAAT	TCAGTTTTTC	TGTTCCAGTT	GCCACATTTT
171121	GATTGCTTAA	TAGTTGCATG	TGACTAGTGG	CTACATAACA	GCCTCAATAT	ACAACATTCT
171181	GTTATCACAG	AAAGTTACCT	TGGACCAAGT	GCTGGGAGAA	GCAATGCAGG	CTTCCTCACA
171241	AAAGCTGTAA	AAGAGAGAAC	TCAGGGAGTG	TGAAACTCTT	TCCTATTCTA	GTTAAGTTCA
171301	AGAATAATTG	TTACCAGGCC	AGCACGGTGG	CTCACGCCTG	TAATCCTAGC	ACTTTGGGAA
171361	GCCGAGGCGG	GCAGATCACC	TGAGGTCAGG	AGTTTGAGAC	CAGCCTGACC	AACATGGCAA
171421	AACCTCATCT	CTACTAAAAA	TACAAAAAGT	TAGCTAGATG	TGGTGGTGCA	CACCTGTAAT
171481	CCCAGCTGCT	CAGGAGGCTG	AGGAAGGAGA	ATGACTTGAG	CTCCGGAGGG	GGAGGTTGCA
171541	GTGAGCCAG	ATTACACCAC	TGCACTCCAG	CCTGGGTGAA	AGAGCGAGAA	TCTGTCTTAA
171601	AAAAAAAAAA	AAAAGAATAA	TTGGTACCAG	AATTACTCTT	TGTAATTAGT	AGTAACACTT
171661	ATGCAATTGG	GTGATCTGTG	ACAGATTCCA	TTGAAGGAGT	ATGGGGAGCT	TCACCCCAAT

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171721	ATATGACTCC	CTGGTATAAT	GAGTATTTTG	AATTAAAGGC	CCTTAGAGAT	CAGCAGATGC
171781	TGGAAGAGAC	TTTTCCCCTA	TCTACATAAA	GACCAAGTCAC	ACTAGACAAG	AAGAAACAATT
171841	GTTTTTCCTT	CCAACCCCTA	TTATCTCATT	TTGTACTGAA	GAAAAGAGGA	CTAAGAATGT
171901	AACCAGACCT	AATCAGACAC	TTTCACAAAA	TAATGTCTGT	CTCTCAGGCT	CATTCAATTT
171961	CCAAAGAGAA	CCATTTACAA	GTTAAACTCT	GTTCTCCAT	TCATTCATCC	TCCCAAATAT
172021	TCATTTATTC	TCCCTAGTAA	TCATTTACTG	CCCCTCAAAG	AATTACCTAT	ATTCTCCTGA
172081	TATCACCCTT	CCCCTCTGAA	ATAAATATGT	ATACATGTAT	AAACGTTATA	CATACATATT
172141	TATACAGTAT	ACATACATAT	TTATACATAC	ATACATATGC	ATACATATTT	ATATTTATGT
172201	ATTTATACAT	AAGTATTTAT	AAATAAGGCT	ATATAAGTAT	CTACCCCCAT	TGGCAGAGGG
172261	GGTAATCACT	CTGTGATTCT	AGCCCATGTA	CTTGTTAATA	AATTTGTATG	CCTTTTCTCC
172321	AATTAGCCTG	CCTTTTGTGA	GTCGATTTTT	CAGTGAACCT	CAGAAGGCAA	AGGGGAAGTG
172381	TTCCCTTGGC	TCCTACACCA	TCATGACAAT	AAAATTTGAC	TCCACCTCGA	CCCCCCCCAT
172441	CCCCACAAA	GAACAACAAC	CAACACTGGT	TAATAAGGTC	GGTTGTTTTT	TGTTTGTGTT
172501	TTGTGTGTTG	TTGTGTGTTG	TGTTGTTTTT	GCTTTCAGGA	GCAGAGGTAT	AATAGGCAAA
172561	AGAAAGAGAA	AGGAGAATAG	TGAATACCTC	TTCTGCAGAG	AGGGGTGCCT	AAGTGGGACT
172621	TCCCTGGCTA	ATAACGTCTT	GCTAGAGACC	CAACCAGGAG	GATAATGGAA	GCAATCAAGG
172681	CAACCAGAAC	AACCAGAAGA	ACCAAGTTAT	CCTTTTGTG	CCCTCTCCCT	AAACTGAGGG
172741	AATAAGAATT	GGAAAGAAGG	CTGCAGAGCA	GAGGGTTTGC	TCCTGAGGAG	CAGTTATTTT
172801	TATGGGATCA	GAGCTCCTGC	AGAAGTGGGG	AGTTTACTTT	TACTATCTCT	TCTCCAGGAC
172861	AGGACCTATC	TCAAGAGACA	TGTTTCAGAGT	GATTGCAACA	TAAAGAGTTT	GCAGACCCAA
172921	GGAGGTAGGG	AAGGCAGAAA	GAAGATGGGG	GAGGCCAGGG	ATAGGCAACA	GAGGAGTGAC
172981	CAGGAGCGAA	AAAGCCTGCC	TCTTCTGAGA	ACCTAGCTGG	GCTCTCCCTG	TACCCCGCAT
173041	CCCTCCCCCC	CGCCCGCCCC	CACACCCCTA	CTCCTGGGAG	CTCCTCTAGG	ACAGGGGCAG
173101	AGTCAGGAGG	AAGTTTGAAG	AGTGCCTAGA	ATAAAAAACA	GTAATTTAAC	TACAATTACC
173161	GGGTAGGCTG	TTTTCCCTCT	ACAATTTGAT	CAGTCTCTTG	AAGCCACACA	GAATTTCTTC
173221	TGAAGACGTG	TATTCCTTGG	CAGGCTATTT	CCTCCAGTGA	TACACCAGGC	CCCTCTCTGC
173281	TGGGGTCACT	GCTCTTCTGG	GGAGATGGGG	CTCCCTCCT	TCCAAGGCTC	CAGGGTTTCT
173341	GTCTCTGGCC	CCACTCATCT	AAGTTCTGAA	TCTTCTGAGA	TTTGGTGTA	AGTCTGGTGA
173401	AAGAAAGAGC	AGGAAAGAGG	TGAGAGCTGT	AAAACAAAGA	AAGTCCTGAC	CATTTTCAGA
173461	GTTGGAGGGG	CCCTGCTGTC	ACGAAATATA	TTCCCCACCC	CACTTGCCAT	CAGTACACAC
173521	TCACATATCC	ACTGAGAAAA	CCTTAGCCTG	GACCTTTTCC	GTAACCTTCA	CTGCTCAGAC
173581	ACTTACATAT	TCGCTGCTAG	TCCCCTCTGT	TGCTGCCACT	TCCTGGGTCA	GGAAGTTAAC
173641	TCAGACCGGA	TTAAACTGAG	AAGTGAAACT	ACTGTGGGAG	GCGGGGCTCA	TAAGATTTAG
173701	GAGAAAACCTA	GTGACGTTGT	TCATATCATT	TGCACTCCGC	CTCTCCGGTA	AAGGAGGGGG
173761	AAACGTAGGA	AGAAAAATATC	CTTCTTTTAC	AGCAATAAAA	AGAAGGAACC	AATTAATAAC
173821	CCTGTAAACT	ATCATGTGAC	CCCAACACAG	AGTATCTAAA	AACAGGAAGC	CTGCAGAGGT
173881	TCAGTTCACA	GACTCTGATT	TGAGATCTTT	CTACTTTTGC	CACCAACTCC	CTTGGGAGTC
173941	CTTAAGCCTT	CCTAGCTGAT	GTTACTTCTT	TTGCTATTTA	TGGGTTGCTT	GTGGTTCTAT
174001	AACTGCTCTG	AAGGGTGTGG	TGGAAAAAGG	GGTGGTAACA	GCAGTAGGAC	TCATTGGCAT
174061	CACAAAATTC	ATCTGAGTCA	GCTTTCTATT	CTTCTCTGTC	CCGTTCTGTG	TCTTGTTTTT
174121	CTCCTTGCTG	TCCTTCTGCA	GGACTCAGAT	CTTCTTCAAT	AGCGAGGGTC	AGCCAGGATA
174181	GAAAATGGGA	GTCACCTAGT	GCCCAGCAGT	GAGTGCCCCC	AGCTTAGAGC	TGTGTGGGAT
174241	CCCTGGGACC	ATCACTCTGC	TTTGTGCTTT	GTGGAGAAAA	GGCTGTGGGG	TCCAGGGTCA
174301	AGTCCTTAAT	GACTTAGCTC	CAGCTTCTCC	ACTTCAAAAT	GAAAGGAAAA	GTACTATCAC
174361	CACCCGTTAG	AATTATTATT	TCATGGGGAA	AAAAGATGGA	TTACTATCTC	ACAATAAGAG
174421	CTTGTCACAT	TTATAAGTCT	CAGGTGTAAG	AGGCATTTAT	GATAACAACA	TAATAAATGC
174481	TGGCTTAAGT	AGATGCAGTG	GTCCAAGGGA	ACCAGTAAGG	GGAGCTCAGG	ACACAGGTGG
174541	GAGGAGAAAT	TAAACTTGAA	TTCTGGGAGC	CACTGGCCTG	TCTGGGCCCC	TGGCCTGCCT
174601	GCTGACCCTG	ATAGCCAATG	GAACATGGAG	TTTGGCCAG	CTGCAATCCC	TCTGGTCCAA
174661	CTACTCAAAA	TAAAGGCAAG	ATTGGGAAAC	ACGTTTCTTT	CTTCTTATAC	CAAGCAGAAG
174721	ACTCTTCAGC	ACTGCACCCT	CCTGGGTGCT	CACAGAGCCT	TCTGTTGTTT	TGCCACCTAC
174781	GATTTCATCAT	GCCCTGGCAT	GATGGTTGCA	GACCCCATGC	ATAGCATGGG	ACATTCTACT
174841	CCTGAGGCAA	CCAGCACACA	GAGAGAGGAG	AAAGAATGAG	CCCCTGAATC	CTTGGTCCCA
174901	CGATGAGTCC	TTGCAGATAT	CTACAACCTT	CATTGTTGTG	GATGTGACTC	TGTACCCAGG

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174961	CATGGCTCAT	TCCAGATCTG	TCCTATTGTC	AGAGGTGTTC	AAACCAGAAT	GACTCCATTT
175021	TGAATGGGGG	CTAGGTAAAA	TAAGGCTGAG	ACCTACTGGG	CTGCATTCCC	AGGAAGTTAG
175081	GCATTGTAAG	TCACAGGATG	AAATAGGCAG	TTGGCACAAG	ACACAGGTCA	TAAAGATCTT
175141	GCTGATAAAA	CAGGTTGCAG	TAAAGAAGCT	GACCAAAACC	CACCAAAATC	AAGATGGCAA
175201	CAAGAGTGGC	CTCTAGTCAT	TCTCATTGCT	CATTATACAC	GAATTATAAT	GTGTTAGCAA
175261	GTTAGAAGGC	ATTCCCACCA	GCTCCATAGT	GGTTTATAAA	TACCATGGCG	ATGTCAGGAA
175321	GCTACCCTAT	ATAGTCTAAA	AAGGGGAGGA	ACGCTTGgTT	CTGGGAATTG	CCCACATCTT
175381	TCCCAGAAAA	CATATGAATA	ATCCACTCCT	TGTTTAGTAC	ATAATCAAGA	AATAACTGTA
175441	AGTATCTGTA	TTAGTCCATT	TTCACACTGC	TGATCCAGAC	ATACCTGAGA	CTGAGTAATT
175501	TATACCAGGA	AAAAATGTTT	CATGCTCTTA	CAGTCCCACG	TGTCTGGGGA	GACCTCACAA
175561	CCACAGCAGA	AGGCAAGGAG	GAGCAAGTCA	GGTCTTACAT	GGATGGCAGC	AGGCAAAGAG
175621	CTTGTGCAGG	GAAATTCCTT	CCTATAAAAC	CATCAGGTCT	CATGAAACTT	ATTGACTATC
175681	ATGAGAACAG	CAGTATAAAT	TACTCAGGGA	AAGACCTGCC	CCCATGATTC	AATTACCTCC
175741	CACCAGGTCC	CTCCCACAAT	ATGTGGGAAT	TTAAGATGAG	AGTTAGGTGG	GGACACAGCC
175801	AAACCATATC	AGTATCCTTA	GTCCAGAAGC	TGATGCTCTG	CCTGTAGAGT	AGCCATTCTT
175861	TTATTCTTTT	ACTTTCTTGC	TTTCACTTTA	CTGTGTAGAC	TTGCCCCAAA	TTCTTTCTCA
175921	CACGAGATCT	AAGAACCTTC	TCTTAGGGTC	TGGGTTGGGA	CCCCCTTTCT	GGTAACACTA
175981	TCAAAGGATC	AGGAAAAGGA	AGCTAGTGAA	TGCTAAAAAG	GAAACAAACT	ACCATTACCA
176041	ATAATAACAG	CAAGACAAAA	GCAAAACGGA	TTGTGACAGC	TGTCCCATCT	CACACCTGTT
176101	TCCCATTGCA	GGAAGGAGGG	GCTGGTTCAT	GCACAGAGTG	GCCAATATTA	GAAGCAGAGA
176161	GGGGGTGCAG	ATGAGACTTC	AGGAATATGT	TGACAAAGGC	AGGCCTAGGG	AGAAATCAAC
176221	CTGAACATATC	CCCAAGGAGG	AATGCATTAT	CTCTAATATG	TAAAGTTAGG	CTTGATCCTG
176281	TGATTATGGG	ATATAGGAGT	CCAAAGACTC	ACAATGGGAA	GTAGGTCACT	AGAGTCTCCT
176341	TCAGAAGCTC	TGTACTGTGT	GTTCCCACTG	TGGGCAAGAG	TCAGCACTCA	GCTATTCCCTA
176401	GAATGCCTTT	CCTCAACTCC	TTCAGATTTT	GCCTCTCAAC	TAACCCTATC	CTGACCACTT
176461	GTTAGCAAGT	GTACCCCTCT	CTCCCTCCCA	AACATTTTCA	AATCTATTTT	GTTCCCATGG
176521	CACTTATCAC	TGAATATTTT	ACTAATTTAT	TTTGTTTAGT	GTTTGCTTCC	CTCATGAGAA
176581	TGCAAAGGGA	TGGATTTTTT	TCAATATTGT	TCACTGATGA	ATCCCAGTAA	CTAGAATATT
176641	TCTAAGCATA	GTGATGTGCA	TTAAATCAAA	GAGTAACTTT	CTGAATTGCA	CTAAACACAC
176701	ATCACAAGAG	GTGTGTGCAC	ATATGTGCAT	GATGCACGTA	GTGTGGTGTG	GGTGTGTGTG
176761	GGGGTAGTGTG	GTAAGTGTGTG	TGCTGTGTGT	GGTATGTGAT	ACATAGTTTG	TGTTAGTGTG
176821	ATGCATGTGA	TGTGGTATGT	GTGTGCGTGT	CCATACATAT	TAGGGGTGGC	GGGGATGTTA
176881	ATATGTCAAA	TGGTACTAGA	AAGTATCGTA	ACTCATGGTG	CTTACTGGTT	TCCCAGAGAG
176941	CTGCTTCTCT	CCCACCTGTA	GGATATACTG	ATGGTTTGGG	CAGAGAAGAA	ATAAAAAGAA
177001	GGCTGTGACC	TACTGGGCTG	AGGAAATAAA	AACGAAAGTA	AAAGAAGAGC	TGGGAAAAGA
177061	GAGTGGAGGG	GCCAAGGGAA	ATTTCCCTTT	TGGCTTCTGG	GGAAACTTTG	CTGAAAAATC
177121	AACTCACAAA	TTTATTAACA	TGTACACAGG	GAGAACCATTA	GAATGATTAT	CCACTTCCCA
177181	AGAGGGCTTA	AAAGCTTATA	TATTATCCTG	GCAAAACAGA	TTATGGGAGG	GGAAGAAGAG
177241	AAACTCTGTT	GATGGGATTA	CTGTTGCGGA	TTTTTGCTCC	TTCGCTCAGC	TAGGTCCGGG
177301	TTTTTGTCTC	ACAGCCAGGA	AGAATTAGGC	ATGCAGCCAT	CAAAGAATGA	GTGGAGTAGA
177361	ATTTATTAAG	TGAAAGGAAA	GCTCTCAGCA	AAGACAAGGG	TCCTGAAAGC	AGATTTCTGG
177421	TTTGCTCTTC	ACAGTTGAAT	ACTAGGGCTT	AAGACTCAAA	TTCCTGACAA	CTCCACCCTG
177481	TCCTACCAGT	GCATGCAGGC	CTTTAGACTG	AGCTACTCCA	TATTGATTAA	TTTCCTGAAC
177541	TGCGCATGTG	TTAAGGAAAG	GAATCATCCA	CTGCAGGCAT	GTTTAGGCAA	GCCCCCTGTG
177601	CAAGTTCCCT	TATCTGCACA	AAACATCCCG	TGTAAGCACT	TGTGGGGCAG	GTCAGAGGTT
177661	CTCTGGGTAC	CATTCCCTTA	CTGTCTGCCT	AAAGCAAGCT	GGCCAACCTC	TTTCATTACT
177721	AGGGAGAGTA	AGTAGATCAG	GGAACAGAGA	TTAAGTGAAG	CATTATCTTG	TGAAAGTCCG
177781	TTCGGGCATG	GTTACATTCT	TGGTCTTACA	GGAAGGGTAA	ATAAAAATAA	TTAGCTTTTT
177841	TGGTGGGTCT	GGATCTTAGG	TAGATAAAGA	AACTTTAATT	CCACGATGTG	TTTTGGTAGG
177901	GATAGTTGGT	GGCAGGGATG	TCAGAGAGAC	TTTGAGGCTT	CTTCAGTTCA	ATATGACCAA
177961	GGGCCATATA	TTAGGGTATC	AATTTCTGAG	CCCCAACAAG	AGCTTAGGAG	AGATGTGATA
178021	GCATCACAGT	GTGAAAGCAA	TTTTTTGTCT	GTTTTTAGAG	ACAGGCTCTT	GCACTGTCAC
178081	CCTGGCTGAA	GTACAAATGGT	ACGATCACAG	CTCACTGTAA	TCTTGAAGTG	GGTTCAAATG
178141	ATCCTCCCAT	CTAAGCATTT	CAAAGTGTG	GGATTACAGG	CATGAGCCAC	GGTACCCAGC

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178201	CTGAAACTGC	ACCCACTTTC	TGATAAACTT	TTCAAATGAC	TAAAGGGGAG	AGAGTAAGCA
178261	CTACTCAGAG	GTAGGAAGAA	AGGACACAGG	ATTATAGGAT	TAAAACAACA	ACCACCAAAA
178321	AAAACCAGAC	CGGTGTGGTG	GCTCACACCT	GTAATCACAG	CACTTGGGGA	GGCTGAGGTG
178381	GGGGGAGTCA	CTGGAGGCCA	GGAGTTCGAG	ACCAGCCTGG	CCAACATAGC	AAGACGCTGT
178441	CTCTATTA	AAAAAAAAT	ACCTGCCTTG	AGCTAATCAG	AATCATGGAC	CCTGACAAAG
178501	GATGTCCCAA	AGTAAGTCTT	AGCATTTTTT	TTTTTTTTTT	GAGACAGTCT	CGCTGTGTTG
178561	CCCAGGCTGA	AGTTCAGTGG	CGTGATCTCG	GCTCACTGCA	ACAGCTGCCT	CCCAGGCTCA
178621	AGCAATTCTC	CCTGCCCTTCA	GCCTCCCAAG	TAGCTGGGAT	TACAGATGCC	CACCACCACG
178681	CCTGGCTAAT	TTTTGTTTTT	TTTAATAGAG	ATGGGGTTTT	GCCATGTTAA	CCAGGCTGGT
178741	CTTGAACCTC	TGACCTCAAG	TGATCTGCCC	ACCTTGGCCC	CTCCATAGTG	CTGGGATTAC
178801	AGGCGTGAGT	CACTGCACCC	GGCAAAGTCT	TAGCATTCTT	TACAAACAGT	TTGTACCCGT
178861	ATCTCTAAAA	GGGAGTAGTG	AATTTACCCC	CAAAATATGG	CTTCCTGATA	TAATGAGTAT
178921	TTTGAATGAA	AAACTCTTAG	AGATCAACAG	ACACTAAAGA	GACTTTTCCC	TAGGTACATA
178981	AAAATAGGAT	GGCCCCACCA	GCGAGAACAA	TTGTTCTTTT	CTCCCTCCCT	GTTATCTCAT
179041	TGTGCATTAT	AGGAAAAGACC	AAGAATGTAA	CCACACCTGA	ACAGACCCTT	TTATAAGATA
179101	ATCAGTCTCT	AAGCATCATT	TAAATTCCAA	GGAGAACTAT	TTACAAATTT	ATCTGTTCTT
179161	TGATCCAATT	AGTCTCTCCT	GGTAGTTACA	TATTGCCCCCT	CAACAGAATT	CCTCTTCTTC
179221	TGTTTCCCAT	AACCTATTTT	GCAAGGATCA	AGCCCCGTGT	ACTTCTTCAA	CTTCAAGTTG
179281	GCATTAAGC	TTCTAAATC	CACCTGGGATA	TTGGTACTAT	GTGCATGAGG	AGAACCACAG
179341	AGTAATTAAA	TTGTAAAGCC	TTTTATCTTA	TGAATCTGCC	TTTTTTTGTG	TTCATTTTTT
179401	AGCAAACTT	CCAAGGGCAA	AGGTATAAAA	CAAAAATAAA	ATTCTAAAGC	CCCCCAACCA
179461	TCTGAATAGA	CTTTCTCTTC	AGTCAGGCTT	CTTAAATGT	AACCTGAAAG	ACTGGCTCAG
179521	GCCATTAAGG	GAAGTGGGGG	TTGAACATGC	CTCATTATTC	CTCTCTGGCA	TTAACATCAA
179581	CACAGCTTTT	AAGTCTGATA	AGAAACATTT	TACAACCTAT	TCTCTCTGAA	GCCTGCTAGC
179641	TAAAACTTC	ATCCCATAGT	ACAACTTTGG	TCTTCACAAC	CTGTTATCAC	AACCTAGTGC
179701	TCCTTTCTAT	TAATCCCAAA	TCTTTATACA	AACTCAACCA	ATTGTCATCA	CCTCCACCCC
179761	ACTCCTCCGC	TGCTTCCAGT	TGTCCCGCCT	CTCTGGACCA	AACCAAGTGA	CATTTCTTAA
179821	ACGTATTTGA	TTGATGTCCC	ATGCCTCCCT	AAAATGTATA	AAGCCAAGGT	GCATCCCAAC
179881	CACCTTGAGC	GCTTGTTCTC	AGGACCTCCT	GAGGGCTGTG	TCATGGGCCA	TGGTCACTCA
179941	AATTTGGCTC	AGAATAAATC	TCTTCAAATG	TTTTACAGAG	TTTGGCTCTT	GTCATGACAC
180001	AGATGACTGC	TTCACTGAAG	CCTGCTCTGG	AAGTGAGTGG	GGGTTTTGCA	AGGATAATTT
180061	TCCCGGATA	GCCCCAGAAG	CAGCTAGTAA	TAATACACTT	AAAGGTAGCT	AAAATGCATT
180121	GAACACTTGT	TTTGTGCCAG	ACCTATGTCA	ACATTTGCTT	TGTGCCAGGC	TTATGCCAGT
180181	ACTCCTGATT	TGTTAATACA	TTCTAAATAA	AAATTCTGGA	GTTTCAAATA	TAATAACTGA
180241	AAAACAGAAA	ATAAATAAAA	ATATATAATA	ACTGAAATAA	AAATTTACTA	AGGCTGGGGA
180301	TGGTGGCTCA	CTCACACCTG	TAATCCTGTT	ACCGGAAAGG	GGTCCGTCCA	GATCCAGACC
180361	CCAAGAGAGG	GTTCTTGGAT	CTCACACAAG	AAAGAATTCG	GGCGAGTCTG	TAAAGTGAAA
180421	GCAAGTTTAT	TAAGAAAGTA	GAGGAATAAA	AGAACGGCTA	CTCCATAGGC	AGAGCAGCTC
180481	TGAGGGCTGC	TGGTCGCCCA	TTTTTATGGT	TATTTCTTGA	TTATGTGCTA	AACAAGGGGT
180541	GGATAATTCA	TGCCTCCATT	TTTTAGACCA	TATAAAGTAA	CTTCCTGACG	TTGCCATGGC
180601	ATTTCGTAAAC	TGTCGTGGCG	CTGGTATGAG	CATAGCAGTG	AGGACGACCA	GAGGTCACTC
180661	TCATCGCCAT	CTTGGATTTG	GTGGGGAGCA	GTGAGGATGA	CCAGAGGTCA	CTCTCATCGC
180721	CATCTTGGAT	TTGGTGGGGT	TTAGCCAGCT	TCTTTACTTT	TTTCCTTTTT	TTTTTTTTTT
180781	TTTTTTTTTT	GCCCAGGCTG	GAGTGCAGTG	GCACGATCTC	AGCTCACTGA	AACCTCCAAT
180841	TTCTGAGTTC	AAGCGATTCT	CGTGCCCTCAG	CCTCCCAAGT	AGCTGGGATT	ACAGGCATGT
180901	GCCACCACAC	CCAGCTAATT	TTTTATATTT	TTAATAGAGA	CCGGGTTTCG	CCATGTTGCC
180961	TACGCTGATC	TCCAACCTCT	GCGCTCAAGC	CATCCAGCCA	CCTTAGCCCTC	CCAAAGTGCT
181021	GGGCTTATAG	GTGTGAGCCA	CCCCACCTGG	CCTAGCCGGC	TTCTTTACTG	CAACCTGTTT
181081	TATCAGCAAG	GTCTTTATGA	CCTGTATTTT	GTGCCCCTG	CCTGCCTCAT	CCTGTGGCTT
181141	ACAATGCCTA	ACTTACAGGG	AATGCAGCCC	AGCAGGACTC	AGCCTTATTT	CACCCAGCTC
181201	CTATTCAAGA	TGGAGTCTTT	CTTGTTCAAA	TACCTCTGAC	AAGCCCAACA	CTTTGGGAGG
181261	ATGACACAGG	AGGATTGCTT	TAGCCTAGGA	GCTCAAGACC	AGCCTGGGCA	ACACAGTGAG
181321	ACCCCATCTC	TAAAAAATAA	AAATACAAAA	AAATTAGCCA	GGCATGATGG	TGTGTGCCTG
181381	TAGTCCCTGC	TACTCAGGAG	GCTGAAGTGG	GAAGATGGCT	TCAGCCCAGG	AATTCAAGGC

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181441	TGCATTGTCA	GAGGCATTTG	AACCAGAATG	ACTCTATCTT	GAATAGGGGC	TGGATAAAAT
181501	AAGGCTGAGA	CCTGCTAGGC	TGCATTTCCA	GTATGTTAGG	CATTCTTAGT	CACAGGATGA
181561	GATAGGAAGT	CAGCACAAGG	TACACATCAC	AAAGACCTTG	CTGATAAAAT	AGGTTGTGGT
181621	AAAGAAGTTG	GCCAAAACCC	ATCAAAACCA	ACATGGCCAC	CAAAGGGACC	TCTGGTTGTC
181681	TTCAC TGCTC	ATTATATGTT	AATTATAATG	TATTAACATG	CTAAAAGACA	CTCCTACCAG
181741	CATCATGACA	GCTTACAAAT	ACTGCGGCAA	TATCTGGACT	TTACCTTATA	TGGTCTAAAA
181801	GGTGGAGGAA	CCCTCAATTT	TGGGAATTGT	CCACCCCTTT	TTTGGAATGC	TCATGAATAA
181861	TCCACCCCTT	GTTTAGCACA	TAATCCAGAA	ATAACTATAA	GTATGCTTAT	TTGAGCAGAC
181921	CACGCTGCTG	TTCTGCCTAC	AGAGTAGCCA	TTCTTTTATT	TCCTTACTTT	CTTAATAAAC
181981	CTGCTTTCAC	TTTACTGTAT	GGACTTGCCC	TAAATTCTTT	CTTGTGTGAG	ATCCAAGAAC
182041	CCTCTCTTGG	GGTCTGGATC	AAGACCCCTT	TCTGGTAACA	TCTTTCTGGT	GACCACGAAG
182101	GGACAATACT	GAGGAGACTC	TGAAGCCAAA	GGAAACAGAC	TACAGCACC	ACTGGCTGAC
182161	TTTGGGTAAG	TGGTGGAGTC	CCCGGGTAAA	GGATAGGATT	GGGTAGAGG	TGCAACTTAG
182221	GGGAGATAGG	GTCTCTCCTA	AGACAGAGAG	CGTTTCAGTC	CGCTCTTAAT	AAAGGGCAAG
182281	AATGCTTGAC	CGAACTTGGG	TTTGAGACCC	AACTTAGGAA	GGCTACAGTC	CTTAAGATTT
182341	AAGGGGTTAG	AGGCCCCCTC	CAGTAAAGTC	TCTCTTGGTT	AAAAACGGAT	TTAGCATTAG
182401	GGGATGTTAA	CTGCTATTCT	GTTTGTATTA	ATCTTCCCTG	TGCTCTTTCG	TGACAGCTAT
182461	GGGTGACAGG	ATTAGGCATG	TACAGGATTA	CGGGACATTG	GGAACTTTTT	TTCTCTCCAA
182521	AAGGGGAAGC	TTGACAGCTG	ATGAGACTGT	TGGAAAAGAT	CCCTTTGCTA	TGACAAGCAG
182581	CCGCTGAAC	TTTTGATTCA	GTGTTGCTGC	AATGGGTGGG	TCTTTCTCTG	GCCTCTGTGA
182641	ACTCCTCACC	TTCCCCACCT	CACCACAGGC	AATGCTTTTC	TCCCTTTCTC	TCTTTTCTCT
182701	TTTCTGTCTT	TTCTGTTACT	TGAGACAACC	ATCTTGCCCA	GAGACCATAT	GTTGAAACTC
182761	CTGGTCAGAA	GTTTGATTAA	AGATGAAAGG	GCCTATCTGG	GGGCAAGTTT	GAGCCTTCCC
182821	AGTTAGATAT	TGGGTGCTAA	GTGGAGTGGC	CAATGTCTAT	GTTTTGTCAC	ATGTATATTG
182881	CTCTGGCTGA	AATGGAAAAC	GTTAATTTGG	TTACTTTATG	TGGCCATTGG	GCAGCATCTT
182941	ACAAAAGTGA	GAGACATTTA	TTTGCCTGTG	GTTCCATGAA	ACAGAAAAAA	GTTGGTTTTTC
183001	CTTTGTGTCG	TAGCTTGGAC	CCAAGGGCTT	TGCAGTGAGC	AAGGTTGCTA	GCGCTGCTCA
183061	GTGAAAGAGA	ACCCAGAAAC	CTGGCATGCC	AGCAAAAGGG	TAAAGATTTC	TTACCAGTCA
183121	GGCTTCTGGC	CTCTCTCTCT	TAGTGAAAAC	TGAATGAATG	GTAAAAATCA	CTGTTTATCA
183181	CCTCTGTAAA	GTTTTGATTA	ATGGGAACAA	GGATTTGTGG	GGCTAGTCTT	AAGCTGTAAT
183241	GAATCTGGTA	TACTTTGTGA	TACTCAATTTG	TCTTTCTGTA	TTACTCTGTC	ATAAAGAGGA
183301	ATATGGTAGG	ATAGAACATG	GGCTTAGGAC	TCCATAAGCC	TGCTGTTCAA	GCCAGCCCAG
183361	TAAACTGGTC	CGTTGCAAAG	TTTATTACAG	TCCCTTGGA	AAAAAAAAAA	TTAAAACTG
183421	GATGAAGTTT	CCTTCTCATC	TTGTTTTATG	TCCTTTGGAG	CTTCACCTTG	TAACCACGTG
183481	GCGGTACTTT	CTCTTGGTCT	CTGCCATCCA	GGGAACAGGA	ATTTTGGGGT	TTATGTAATA
183541	GTAACTCTA	AAAATTATCT	CAAGCCATTG	CAAGCTCAAA	ATTGGCTGCT	CTGGACCCCT
183601	TCTGGGAAGG	GCAATGGAAA	CTAACCAGTG	TTGTAGCTCA	GCAGCTAAGG	ATTTGTCATT
183661	TTATAATGGC	GGCCAAGGTT	CAATCCTGGC	TTAGGGAATG	AGTACTTTCT	GATTGATATC
183721	TGTGTGACCT	TTACCATTTG	TTGATTCTGT	TCTCTTCCCC	TCCACACACT	GTCTTGAGTT
183781	TTCTCTCTC	TGAGAACCTG	GGAGATTATC	TTTGGTAAAG	TTCAAAAGCC	AGAAATAATG
183841	GCCGTGTGGG	ATGGCTAAAG	TTGAGTAATA	AGAACTTAA	AAGGACTCCT	TTTTTTTTTG
183901	CTTTAGAGTG	CTATGGTTTA	TGGTTAAAAG	CTTAATTAAA	AGTGATATT	CAATCTCTAA
183961	AAGCCTGGGA	CTCCTTGGGA	AAAGCAGAGG	AGGCACCACA	GACCCCATTT	TGGGAAAACC
184021	TCTGTTTTCC	TCATGAAACC	CCAGGAACCTG	GAAGTGGATA	GATCCTTCGC	AAAATCTAAG
184081	GCTCTGTTTG	GCTTTGCATT	ATGTTATCTG	ATGTTTTTGA	CTTTTGGGGG	TATCAGAAAT
184141	TACTTTGCAT	TATGAGGGAG	ATCTGGTGTG	TAATAACCAG	GTAGGAAATA	TACTTCTGGG
184201	GATAGCTAAA	GGCAAATATA	GGTGAATACT	TGGCTATTTG	CACCTTTTGA	TCACAAGAAG
184261	CATTCTCTTG	ACTACCTAGA	AGGTATGGAA	ATGTCTCCAT	CCCCACCGAG	AGATAAGATT
184321	CCCAGGGGAG	ATGGCTGATC	CCCCAAAAGA	GGGCTGATTC	CCTCTTTTGG	GATCCAGGAT
184381	CTGGTATAAA	AATGGGACCC	TGGCCAGGCA	CAGTGGCTCA	CGCCTGTAAT	CTCAACACTT
184441	TGGGAAGCCT	CAGAGTTATG	AATGTCTCAC	CATACTGACA	CTTTGTGACT	GAGCTCCTCT
184501	CTACCCTGGA	CACAAGAGAC	CCTAATAATT	AGACAGGAAT	ATCATTGCCC	CTATTTAGTC
184561	TGAAGAAGTT	ATAGAAGATG	GATCTTTATC	CCACTGCAAT	CCTTAGGATT	AAGGGTTCCC
184621	TGGTAAAAGG	GAGTGGGAAA	ATATGTCAGA	GGCATTTGAA	TCAGAGTGAC	TCCATCTTGA

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184681	ATAGGGGCTG	GGTAAAATAA	GGCTGAGGCC	TGCTGGGTTA	GGTTAGGCAT	TCTAACCAGG
184741	AGTTT TAGTCA	CAGGATGAGA	TAGAAGGTTG	CACAAGGTAC	CCGTCACAAA	GACCTTGCTG
184801	ATAAAATAGG	TAACGGTAAA	GAAGCCAGCT	AAAGCCCACC	AAAACCAACA	TGGCCACAAA
184861	AGTGACCTCT	TGTCATCCTC	ACTGCTCATA	TACACTAATT	ATACTGCATT	AGCATGCTAC
184921	AAGACACTCC	CACCAGTGCC	ACGACAGTTT	ACAAATACCA	TGACAACATC	TGGACGTTAC
184981	CTTATATGGT	CTAAAACGGG	GAAGAACCCT	TAGTTCTGGG	AATTGTCCAC	CTCTTCTCTG
185041	AAAAATTCTT	GAATAATCCA	TTAGTTTAGC	ACATAATCCA	GAAATAACTA	TACGTCTGCT
185101	TATTTGAGCA	GTCCATACTG	CTGCTCTGCC	TATGGAGTAG	CCATTCTTTT	CTTTTATTTT
185161	TATTTTTTAG	ATAAAGACTC	GCTCTGTCAC	TCAGGCTGGA	GTCTGGAGTG	CAGTGACGTG
185221	TTTTGGCTCA	CTGCAACCTT	CACCTCCCAG	GTTCAAGCAA	TTCTCCTGCC	TCAGCCTCCC
185281	AAC TAGCTGG	GACCACAGGT	GGGTGCCACC	ATGCCTGGCT	AATTTTTGTA	TTATTAGTAG
185341	AGATGGGGTT	TCGCCATGTT	GGCCAGGCTG	GTCTCGAACT	CCTGGCCTCA	AGCGATCCAC
185401	TTGCCTTGGC	CTCCCAAAGT	GCTAAGATTA	CAGGCATTAC	CCACTATGCA	TGACCCATTC
185461	TTTTATTTCT	TAACTTTTTT	TTGTTTTTTT	GAGACAGAGT	CTCACTCTGT	CACCCAGGCT
185521	AGAGGCTGGA	GTGCAGTGGT	GCGATCTTGG	TTCACTGCAA	CCTCTGCCTC	CTGGGTTCAA
185581	GCGATTCTTC	TGCCTCAGTC	TCCTGAGGAG	CTGGGACTAC	AGACATGTGC	CACTACACCC
185641	AGCTAATTTT	GTATTTTTAG	TAGAGACAGT	GTCTTGCCAT	GTTTGTGAGG	CTTGTCTCGA
185701	ACTCCTAACC	TCAAGTGGTC	TGCCTGCCTC	AGCCTCCCAA	AGTGCTGTGA	TTACAGGCAT
185761	AAATCACTGC	GCTCGGCCCT	CTTTTACTTT	CTTAATAAAC	TTGTTTTTCA	TTTACTGTAT
185821	GGACTAGCCC	CAAATTCCTT	CTTGTGTGAG	TTCCAATAAC	CCTTTTGTGT	GTGAAAGAAT
185881	TTATGGCTGC	TGTT CAGGCT	GGAGCAAGCT	GGAGCTCATG	CTGCTGCTCA	GACTGGAGCA
185941	TGCGTGATCT	GTGATCCAG	TAAGAGGATC	ATGGTCACTC	CAGCCTGAAC	GACAGCATGA
186001	TATCTCATCT	GTAAGAAAAA	AAAAATTACT	AGAGGGCTTT	AACAGCAAAT	TTGAGCAGCA
186061	AAAAGAAGTA	ATCAGTGAAC	TCAAAGATAG	GTCAATTGAA	ATGATCTACT	CTGAAAAACA
186121	GAAAGAAGAC	AGAATGAAGA	AAAAGAAATA	GAGCCTTAGA	GACAGGGGAT	ACCATCAAGC
186181	ATACTAATAT	ATGCATAATG	GGACTCCTAG	AAGGAGAAAA	GTGAGAGGAC	AGGGAGAGAG
186241	AATGTTTGGA	GAAATAATTT	CTCAAAGCTT	CCCATGTTTG	GCAAAAAAAC	ATTAACCTGC
186301	ATACATATTT	TAGGAGCTCA	ATGAATTCCA	AGTAGGATAC	ACTCAAAGAG	ATCCATACCT
186361	AGACACATCA	TAATCAGATT	ATCAAAAGAT	GAAGAAGATG	AATCTTGAGA	GCAGAAAGAA
186421	AGGAACAATT	CATCACATAC	AAATAGTACT	CAAAAGATGT	CTGGAGTAGG	TATACTAATA
186481	TCAGACAAAA	TAACTTTTAA	GATAAGCACT	GTTATAATAA	ATAAAGAAAG	GTATTTTGTA
186541	ATGATAAAAG	TGTCAATTCA	TCAAGAAAAC	ATAACATTAT	AAACATACAT	GCACCTAACA
186601	ACAGAGCCCT	AATATTCATG	AAACAAAAC	GACAGAATTG	AAGGGAGAAA	TAGAAAATTC
186661	GACAATAATA	GTTGGAGACA	TCAATACCTC	ACTAGTTAGA	CAAGATCAAC	AAAAAATAG
186721	AAGACTTAAC	ACTTGAAAAC	ACCTAACCTG	ACCCTAACAT	AAATCTATAG	GTCACTACAC
186781	CCCAAAACAG	CAGAATAAAC	ATCCTTCTGA	AGCTCACATG	AAACATTTTT	CAGGATAGAC
186841	TGTATATTAC	TTCATGAAAT	AAGTCTCAAT	AAATGTAAAA	GGACTATAAT	AATAGAGTAT
186901	ATATTCTCTG	ACCAAAGTGG	AATGAAGATA	GAAATCAATA	ACTAGGCTGG	GCGTGATGGC
186961	TCACGCCTGT	AATCCCAGCA	CTTTGGGAGG	CCAAGGCGGA	CAGATCACGA	GGTCAGGAGT
187021	TTGAGACCAG	CCTGACCAAC	ATGGTGAAAC	CCTGTCTCTA	CTAACAAAAT	ACAAAAATTA
187081	GCCAGGCCTG	GTGGCATCTG	CCTGTAGTCC	CAGCTACTCG	GGACACTGAG	GCAGGAGAAT
187141	CACTTGAACC	CAGGAGGCAG	AGATTGCAGT	GAGCTGAGAT	CGCGCCACTG	CATTCCAGCC
187201	TGGGAGACAG	AGCGAGACTC	CATCTCAAAA	TTAAAAAATA	AAAAGAAACT	AGAAAAATAA
187261	GAACAAATCA	AACCCAAAGC	AAGCAAGAGG	AAAATGAAAA	ATTTCAAAGC	AGCCAAGAAC
187321	AAAAGGCACA	TTATGTACAG	AGAACAAGT	GTATAGATCA	CATATTTCTC	ATAGACACAA
187381	TATAAGCAAA	AAGACAGTGG	AGCAAAATTT	TTTAGATTAA	TGAAAGACCT	ACAATTCTGT
187441	ACCAAGCAAA	AAAAC TCCCC	CCAAATGAGG	GTGAAATAAG	ACAATTTAAT	ACAGAGAAAA
187501	GAGGAAGGAA	TTTATCTAGT	CATATGTGAG	AGTTTTATGA	TACATTTTGT	ACTGTATATG
187561	TGGATGTTTT	CTATTTTCAAT	TAAAAAATCA	ACCGTGCAAT	TAAATGGTAG	ATTGTCTTGC
187621	TTCTTTTTGA	TTGACACAGT	CATTAACTAA	AATATTGTAG	TATTTTTTTA	TCTCCCTGCC
187681	TAAAGGCAAT	AAACATCTAA	TCAGCAGACT	AGAACAATAA	AAAATATTTT	TTAAAAGTCC
187741	TTTAGGCAGA	ATGATAAAAG	TCCCTTAGGC	ATATTGAAAT	TCCTATTTAT	ACAAAGGAAT
187801	AAACAGTACT	AGAAATTGTA	ACTATGTGAG	TAAACAGATA	ATATTTTTTC	TCCATAAAAT
187861	GTGGTTGACT	ATTTTCACAA	AAATAGTTAA	CAATGTAATG	TGTGATTTAT	AGCATTTAAA

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187921	AGTAAACAG	GCCGGGCACA	AAGGTTCTGT	CCTGTAATCC	CAGCACTTTT	GGAGGCCGAG
187981	GCGTGCAGAT	CACCTTGAGGA	CAGGAGTTCA	AGACCAGCCT	GGCTAACATG	GCAAAACCCC
188041	ATCTCTACTA	AAAATACAAA	AATTAACCAG	GCGTGGTGGT	GCACGCCTGT	AATCCCAGCT
188101	ACTCTGGAGG	CTGAGGCACA	AGAATCACTT	GAATCCAGGA	GGTGGAGGTT	GCAGTGAGGC
188161	AAAATTATAC	CACCTGTGCTC	CAGCCTAGGC	AACAGAGCTA	GACTCTGTCA	CACACACACA
188221	CACACACAAA	AGAAAAGTGT	ATGACAACAA	CAGTGCAAAA	GAAGCGGAAA	TGAAAATAAT
188281	GTTATTTTAT	ATAAGTGGTA	TACTTTTAGA	TGAACTACGA	TAAATTAATG	ATGTATACTA
188341	TAAACTCTAA	GGCAACCACT	GAAATAATGA	AACGAAGAAT	TATGGCTAAC	AAGCCACAAA
188401	AAGAAATAAA	ATAGAATGAG	AAAAAATATT	TAAGTTGTTC	AACAGATGGG	AAAAAAAAGA
188461	GGAAAAAGAG	AACAAAGAAC	AGATGGGACA	AATGGGAAAG	TAATAGCAAG	ATGATAGACT
188521	TAACTCTACC	CATATAGATT	ATCACACTTA	AGGTAAATGA	TCTAAATACT	CTAATACAAA
188581	AGCAGAGGTT	GTCAGATTGA	ATTAAAAAAA	CAGACAACAA	CAAAAAAAG	CAAAAAAGA
188641	GCCACAACAT	GCTGCCTACA	AAAAATTCAC	TTTAATATAA	AGACACAAAT	AGTCTAGAAC
188701	ACCATCACTT	TTAACCTTAT	TTACTCAAAC	CTCCTAACTG	ATCCCTATTT	ATTTATTTAT
188761	TTATTTATTT	ATTTATTTAT	TTATTTTGA	GACAGAGTCT	GACTCTGTTG	CCCAGGCTGG
188821	AGTGCAGTGG	CACCATCTAG	GCTCACTGCA	GCCTCTACCT	CTCGGGTTCA	AGCGATTCTC
188881	CTGCCTCAGG	CCTCCCAAGT	AGCTGGGACT	ATAGCACATG	CCACCATGCC	CAGCTAATTA
188941	TTATATTTTT	AGTAGAGACG	GGGTTTTGCC	ATGTAGGCCA	GGTTGGTCTC	AAACGCCTGA
189001	CCTCAGCCTC	CCAAAGTGCT	GGGATTACAG	GCGTGAGCCA	CAGCACCCAG	CTCCTCTTCA
189061	TTTATTCTTG	CTACGCTTCC	TCCAATCCAT	TTTGTGCATT	TGATGATTTT	GCCAGTAACT
189121	TCTTTATTTT	TCTGGTAAAA	TTACTTATGG	GTCAGTGGG	ACTGGGATGT	TCTTTCTTCT
189181	AGAGGGGGTT	TGTGTCTGCT	TTTGCCAGGA	AGCTGGGGTA	CCACCAGTCA	AGTATTACTT
189241	TAAACTCAAT	TCATGAATTG	AGACTTTTTT	TTTTTTTTTT	TTTTTTACGC	AGAGTCCTAC
189301	TCTGTACCCC	AGGCTGGAGT	GCAGCGGTGT	GAACATGGCT	CACTGCAGCC	TCAACCTACT
189361	GAGCTCAAGC	AATCCTTCTG	CCTCACCATT	CTGTATAGCT	AGGACTACAG	GTGTGTGCCA
189421	CCATGCCTGA	CTAATTTTTT	AAATGTTTTT	TTTAGAGATG	GGGCTCACTT	TGTTGCCCAG
189481	GCCGGTCTCG	AGCTCCTGGG	CTCAAGTGAT	CCTCCACCT	TGGTCTCCCA	AAGTGCTGGG
189541	GTTACAGGCA	TGAGCCTCTG	TGGCTAGCCA	AGACTTTTTA	TTTTTTAGCC	TAAATGTGTA
189601	TAAAAGTTGG	CTTGTGGTTA	CAACTTATCA	GGATTGATGA	TCTCTCTCTC	TCTCTCTCTC
189661	TCTGTCTCTC	CCCACCTCTC	TCACATCCCT	TGCTCTGCTG	AGAAGCAGAG	CAAACATTCT
189721	AGCAGTTTCC	AGAGAGTAGG	ATGGGATTAC	TTCTAGTTTA	CTTTTATCAT	CCTTTGGGAT
189781	CGCAGTATTA	CTGGGAGAAC	ACAAGTATCT	CTTATTAGAC	ATACCACCTT	TGTAGAATCT
189841	GGACTTTTCT	TTTAGACTTT	ATTTGTTTTT	TACTATAAGC	AATTTAAGTT	ACAGATCTCT
189901	CTACACACTG	TTTAAGTTGC	ATCCCATGAA	TTTTGATGTG	CTTTATTGTC	ATTATTATAT
189961	AGTACAATGT	ATTTTGTAAT	TTTTTGTTGAT	TTGTTTGGAG	AGATTGATTA	ATTAGAATGA
190021	TGTTTTAATT	CCAAATATGT	GTGTTTTTTT	CCTACATTTT	TTATTTTAT	TGATTTCAAA
190081	TTTATTTCTA	CTGTAGTCAG	ATTTAATAAT	TCATTTATTT	TTATTTATTT	CATTTTTTTA
190141	GAGACAGGGC	CTTTCTGTGT	TGCCCAGGTT	TGTCCCAAAC	TCCTAGTCCC	AAGCAGTTCT
190201	CCTGCCTCAG	CCACCCAAAG	TGCTGGGATT	ATAGGCACGA	GCCACCCGTG	CACAACCAAC
190261	AATTCAATTA	AAAAGTGGGC	AAGTGAAGTG	AACAGACATT	TCTCAAAAGA	AGGCATACAA
190321	TTGGCCAACA	AATATATGAA	AGAATGCTCA	ACATCACTGT	ATTAGTCTGT	TTTCATGCTG
190381	CTAATAAAGA	CTTAACCTGA	GACTGGGGAA	TTTACAAGAG	AAAGAGGTTT	AATGGACTTA
190441	CAGTTCCACA	TGGCTGGAGA	GACTTCACAA	TCATGGTGGA	AGGCAAGGAG	GAGCAAGTCA
190501	CATCTTACAT	GGATGGCAGC	AGGCAAAGAG	AGAGCTTGTG	CAGGGAAACT	CCCGTTTTTA
190561	AAACCATCAG	ATCTCGTGAG	ACTCATTCAC	TATCATAAGA	ACAGCATAGG	AAAGACCCGG
190621	CCCATAATTC	AGTCACCTCC	CACTGGGTTT	CTCCCAGGAC	ACATGGGAAT	TGTGGGAGTT
190681	ACAATTCAAG	ATGAGATTG	GGTAGGGACA	CAGCCAAACC	ATATAAATAA	CTAATCATCA
190741	GGGAAATGCA	AATCAAAACC	ACAATAAGGT	ATCATCTCAC	CCCAGTTAGA	ATGGCTATTG
190801	TCAAAAAAAC	AAAAAATAAC	AAATGCTGGT	GAGGATGTAC	AGAAGAGGGG	ACTCTTATAT
190861	CCTACTGGTG	GAAATGTCAA	TTAGCATAGC	CATTATGCAA	AATAGTATGG	AAGTGAGGTA
190921	GGTTACATAG	GGTGGTCACA	GCCTCCCTTG	AAAGGAAACA	AGAAACTTGT	CAAATTGATG
190981	GAGAGAACAA	ATCTCTTGAC	ATTACACAAA	CTGCATCTGG	GGCTAGTGGT	TAGAATATCC
191041	TCAGTCAAGG	AGGTAGAAGA	GCAGGAGGGA	AAATCCCTAA	GTTTCGTGCA	GTGCAGAAAC
191101	CCACAAGCTG	TGTTCTCAGG	TTGACATATA	CTCATTTTAA	TAGTAAGAAA	CACACCCTTG

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191161	GGTAGAGAAT	TAAAATGCTA	ATAATACATG	TGATGTATGT	ACTAGCGTGT	ATGGCAATAT
191221	TGCATGCACA	TTCAAGAGAC	CACCCAAAAC	ATATTTAACA	ACAATGCCCA	TTCCACCCCC
191281	CTCATGGATA	ATCACGTAGG	ACTCCCATAA	CGGGAGTTTC	TTCAGTGTCA	ATTGGTGCTG
191341	AAGTAGCCGA	CCCTGACTCT	GCTATCAGCG	TGTACTTTCA	CCTTGCAATA	AACTCCTTTG
191401	CCTACTTTTA	CTTTGGACTG	GCTTTCAAAT	TCTTTTGTGC	AGGGAATTCA	AGAATCTGAA
191461	CCAGCCCACT	GACAACAGAG	GTTTCTCAGA	AACCTAAAAA	TAGATCTACC	AGATGAGGCT
191521	GAAAAATCTGC	TACTGGCTAT	TTATCCAAAG	GGAAGGAAAT	CAGTATACAA	AGAGACACCT
191581	ACATCCCCAT	GTTTATTGCG	TCACTCTTCA	CAAGAGCTGA	TATATAGAGT	CAACCCTAAA
191641	TGTTTCATTAA	CAGACAAATG	GATAGAAAAT	GTGGCATATA	TACACAATGA	AATACTATTT
191701	GGCCATGAGA	AGAATGCAAT	CTTGTCATTT	GTGGCAACGT	AGATGAAACT	GGAGAACATT
191761	ATGTTAAGTA	AGATAAGCTA	GGATTGGAAA	GATAAATACT	ACATGTTATC	ACTCATATGT
191821	GAAAGTAGAG	AAAAATTTTT	AGCTCATGGA	TTTAGAGAAC	AGAACTGTGG	GTACCGGAAG
191881	CTGGGAAGGG	TAGCAAGGAG	GGGAGGATAG	GGAGAGGTTG	GTTAATGGTG	ACAAAATTAC
191941	AGCTAGATTG	TAGAAAATGAG	TTCCGGTGTT	CTGCACCATT	GTAGGGTGCA	TATGGTTAAC
192001	TCTCATTTAT	TGTATATTTT	CAAAAAGCTA	GAAAAGAATT	TTGAATACTC	ACAACAAAAT
192061	AAATGATAAA	TGTTTAAGGT	GATGGATATA	CTAATTACTC	TGATTTGATT	ATTACACATT
192121	GTGTACACAT	ATAAAAATAT	CACTCTTTAT	CCCGTATATA	TGTACAGTTA	TTATATGTCA
192181	ACTAAAAATA	AAAGAAAAAA	AGAATATGAT	CTATCATGAT	GTATATATCA	TGTGTACTTG
192241	AGCAAAATGT	GCATGCAGAT	ATTGTGTATA	ATGTTCTATA	AATCAATTAG	CTCAAGATAA
192301	TAGATAGGAT	TGTTTCAGATC	TTCTGTGTCT	TTACTGATAT	TTTGTCTAGT	TATTGCATCA
192361	TTACCAAAAA	AAGGGTGTTA	AACTCTCCAA	ATGTGATTGT	AGAATTGTCT	ATTTTGTCTT
192421	TTCTTTTCCA	TTTTTACTTT	ATGTATTTTG	AAACTCTGTT	ATGACATTTT	GCTATGTATT
192481	TTAAAACTTC	GTTATGTATT	TTGAAACTCT	GTTGTTAGAA	TCATACATTT	ATGATTATTA
192541	TGTTTTCTTG	ATGAAATGAC	CCTTTTCTAT	TGTCGTTGTT	TTTGTTTTTT	CTGAAATGGA
192601	GTCTCACTCT	GTTGCCCAGG	CTGGAGTACA	GTGGCACAAT	CCTGGTTCAC	TGCAACCTCC
192661	ACCTCCTGGG	TTCAAGCGAG	TCTCCTGACT	CAGCCTCCAA	GTAGCTGGGA	TTACAGGCAT
192721	GTGCCAGCAT	GCCAAACTAA	TTTTTGATTT	TTATTAGAGA	CAGAGTTTCA	CCACGTTGGC
192781	CAGGCTGGTC	TCGAACCTCT	GACCTCAGGT	GATCCGCCCA	CCTCGGCATT	TTTATTTTAT
192841	TTTATTTTTT	TGAGACAGAG	TCTCACTCTG	TCACCCAGGG	TAGAATGCGG	TGGTGTGATC
192901	TTGGCTCACT	GCAACCTCCG	CCTCCTGGGT	TCAAGCAATT	CCCATGCCCT	AGCCTCCCGA
192961	GTAGCTGGGA	TTACAGGCAC	ATGCCACCAT	GACTGGCTAA	TTTTTGTATT	TTTAGTAGAG
193021	ATGGGGTTTT	TCTATGTTGG	CCAGGCTGGC	AACTGACTCC	TTTAACAATA	CAAAATATCA
193081	CTCTGTCTCT	GGTAACACTC	TCTGTCTTAA	ACTCTATTTT	AGCTGTTATT	ATTATAGCCA
193141	TTTTAGTCTT	TTTATGCTTT	CTGTTTGTCAT	AGTGTATATA	TTTAAATATG	TTTATTCTCA
193201	AGTTATCTGT	GTTTTTATAT	TTAAGATGTT	TCTCTTCTAG	CCAACGTGTT	TGGTTCTTGC
193261	ATTTTTAAGT	CGATTCTAAC	AATCTTTGCC	TTTCAATTGA	AATATTTACA	CCATTAAACAT
193321	CTAACATTAA	CATTTATTTT	TCTTTCCACA	GTACACTGGC	TAGCATCTCC	CATATAATAT
193381	TGAACATAAA	GTGTGATAAC	TGACATCCTT	ATTTCAATTCC	TACTCTGAGT	GGAAAGGGCA
193441	GGGGTGGAGA	AAGCATTCAA	CAATTTGCCA	TAATTATAAT	TCTTTTGTGT	ACACTGTTTT
193501	CTTCTGCATT	AAAAAATATC	ATTACATTTT	GCATGAATTA	TTAGGAGAAA	ATATTTTCCA
193561	ATTTTCCTGG	AAAATGCCAT	AACCACGTCT	CTCAATTTTG	TTTCCATCTT	TCTTCCACAT
193621	TTTACATAAC	CTACATAAGA	GACACATTAT	CAAGTATATT	TTACATGGCT	TCTCAGTGTC
193681	TTCTCTGTCT	GCTAACAGGT	TTACCAAGAG	ATGGCACTCT	TGTATTTCTG	GTGGCTATGT
193741	CCATATCGTT	TTGCCTTTAA	GACAGCGTAA	CTACTTCTTT	CACCAGTATT	AAAGACATGT
193801	ACATTTGATC	TGGTTCTTGT	GGATGATTTT	AAATGACTCA	AGCTAATAAT	CCTAATTTTA
193861	CCTAAACACT	CCATTATTTT	AAAATGTATT	CCTTTATGCC	CACAATAAAC	ATTTATTGAC
193921	ATTAGGCTGG	ACATTAGGCT	TCTCTATTGC	AGACATTAGG	CTGGACCCTA	GCCATATATC
193981	TATTGAGGGA	AAAAAAATTA	TTTTCTATAT	AAGTTTCCAG	AAAGCCAAGA	TGTGTTTTAA
194041	AAACAAAACA	AAACATTACA	TTCTAAATGC	TGTAACAAGA	TAAGAAAAAG	TGTTGAGGCT
194101	GAGAGAAGAA	CAAAGCAGCA	AGCAACTCCT	GGAAGGACCA	CTGCTGCAGA	GGTAATAACT
194161	GGTGAACCAT	GTTTTGGAGA	AGGAAAAGGT	CACCAAGAGA	AGGAGGGGGT	CCAGGGTGTT
194221	CAGAAAGATT	GCATGCATAA	AGATCAAGGG	TAATAAAAAA	AATTCCGTAT	TATGTAAATG
194281	TGAAGTTCCA	GGACCATGAG	CTTGGAGAGC	ATGAAGTACA	GGAGGAGGGT	TGGTTTCAAA
194341	TAAATCTGGG	AATGAAACAG	TGAAGCCTCT	GGCAGAAGTC	ACATCTCTTT	CCTCCCTCT

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194401	TCCTTGACACA	TTCCCTTTTAT	GGAGTAATTG	CAGGGATGGG	AAAAGTTCAA	AACCACCACT
194461	GAGCCTAGGA	AGTGCTAGGG	TAAAGTGGAG	AATGAACCTG	CGTGATTTCG	TCATCCTAAA
194521	CTAGGTTCTT	CTAGGAGAGC	CCTTCCCCAT	AAAATCTGCC	CTCCTCGAAG	GGGCCCAGAC
194581	AGCCTAAGCT	CACCTCCCAA	AGACCCCTTA	CTTGCTGACT	GAATCTGATT	CCACCCAGAC
194641	ATGGCCTAAA	ACCCTTCCAT	AACTCTATAG	CCAAATTCAA	TTTTAGACAG	GCCTCATACC
194701	AACCTTTCTT	CCTCTAAGTC	TGCCACCCTA	GGCAATTCTC	AACATTCTCT	ACACACTTTG
194761	GGGCCATAGA	CGTGCTACCA	AGTCTCCAGA	CCTAGACCTG	ATGGAGCAGT	GCTGTAATGA
194821	GACGACCACT	GGCCTTTGAA	CCAGACCCCT	CTCTGTGGCT	CCTATGCATC	TCCAACCTGT
194881	TTTGAGCACT	GCTGCCAAGA	CATCTTTGGC	ACTTTGTTGT	GAAGTTTTAA	AACTGAACATA
194941	ATCTACAAA	CACCTAACCT	TTAAAAATTC	ATTGTCATTT	CATATCATGA	AAGATAAAGA
195001	AAGGCCAGGA	AACTGTTCCA	GGTTAATAGA	GACTAAAGAG	ATAGCAACCA	AATGCAATTT
195061	GTGATCCTGG	ATTGAGGGGA	AAAAGTGTG	TCAGAGACAT	GATTGGGACA	GCTGGTAAAA
195121	TTTGAATTTG	AATTTAAAGA	TAAAGTATTG	AGTAATATAG	GAAGATGATT	ATCTGCAACT
195181	TTCAAATGTT	TCAGTAAGTA	TATATATATA	TAAAGAGATA	TAAAGACATA	TAAATAAATA
195241	GATGGATAGG	TAGAGAAAAA	GCAAATGTAT	AATATTAACA	ATCTAGGTAA	AAAGTATATG
195301	AGTGTTCCTT	GTACTGTTTT	TCTGATTTTT	CTATATGTTT	GAAATCATTT	TAAAATAAGA
195361	AGGTTTTTGG	GGTTTTTTTT	TTTGTTTTTT	GTTTTTAGAG	ACAGCATCTT	ATTCTGTCAC
195421	CCAGGCTGTA	GCTCAGTGGC	CCAATCATTG	CTCACTGCAG	CCTCAACTTC	CTGGGCTCCA
195481	GTAATTCCTCC	CTACCTCAGG	CTCATGAGTA	GCTGGTACTT	CAGGTGTGCA	CCACTGCACT
195541	CAGCTAATTT	TTATTTTTTA	AATTTTTGTA	GAGATGGCAT	GTTGCTATGT	CACCCAGGCT
195601	AGTCTCAAAC	TCCTGCCCCC	AAGTGATCCT	CCCCTTTGG	CCTCCCAAAG	TGCTAGAATT
195661	ATAGGCATGA	GCCACTGCAC	CCAGCCCCAA	ATAAAAAAGT	ATTTTATTTT	AATTAACATA
195721	TTAATTTTGA	GTCAGAGTTT	CACCCTTGTC	ACCCAGGCTG	GAGTGCAATG	GCATGATGTT
195781	GGCTCACTGC	AAACTCTGCC	TCCTGTGTTT	AAGCGATTCT	CTTGCCTCAG	ACTCCTGAGT
195841	AGCTGAGATT	ACAGGTGCCT	GCCACCATGC	CCAGCTAATT	TTTATATTTT	TAGTAGAGAC
195901	GGGGTTTCAG	CATGTTGGTC	AAGCTTGTCT	CAAACCTCTG	ACCTCAGGTG	ATCCACCCAC
195961	CTCGGCCCTCC	GAAAGTGTTG	ATGAGCCACC	ACACCCGGTC	TAAAAAGTAT	TTTAAAAACCA
196021	CAGTCCCCT	CTACCTTGTC	CTACACTACC	AGGGGCTAGG	ATCACCCCAT	GTCTTCTAGG
196081	CTATGAGATA	GAGGAATCCA	AGGAAGAAGA	TAAGCTACTT	GGTTCCTCTA	TAGGGTCTTG
196141	TGTGTGCTCT	CATGTGCTCT	CTCTCTCTCT	CTCTCTCTCA	CACACACACA	CACACACACA
196201	CACACACACA	CACACACATG	AATACCAGAG	CTATCACTTT	CCCAGTCTAG	TACTCATCTC
196261	ATCCCAAGGG	TTTTGTGTTG	TAGTGGTTTG	CTCATTTGTT	TGTTTTGTTT	GTTTGCTTGG
196321	ATTATTCTTT	TTCTCTTTTT	GCAGCTGAAG	GGAGAATTTC	CAGGCCAGCC	CTTTGGCCAT
196381	TAGAGTTACA	GTGCCTCTAT	TCAGGCTTCA	TAGAGAGACC	TGGGATTCTAG	TAGTGGGGGG
196441	CTTTTATCCA	GTTCAAATA	ATGCATTCTC	ACCAAGATGT	ACTTTGAAAT	AAAACAATAC
196501	TAAACACAA	AATTTTATTT	ATGCTGAACA	TTGAATCACT	TTTTTCTGTA	TTTTGTGTAG
196561	AAAGTTATAC	ACACACAAAC	ACATTTGCTC	CTGCTTTGTT	TATTGGCCCCA	GGGGTATGTT
196621	TGGTAATACT	TCATCAGGCA	TGAGTAGTAC	GTCTTGGAAG	GTGTGGTCTA	AAGCCTAGAC
196681	TCCTATCTGC	TTCCCTCAGC	ATTCTCCAGT	GTATCTGTCA	TCTGTCTACC	TTAGGATGGG
196741	GTCTCCAGAA	CTTCCATTCA	CATTTAGAAG	AGGGCAGCGG	CTTCTATG	AAAATATGAA
196801	CTCTCATTCA	TCTCTATTCC	TTCTTCTAGC	TATGGTCCAG	CTCAGCTGTT	TGGAATAAAG
196861	TATCTATATG	AAGTCTGCGA	ATGGTTCTCA	GACTGGTTGA	ACATTAGAAT	CACCTGAGTA
196921	CCTTCTAAAA	TTCTTATTAC	CCAGGGCATA	TCTCAGAATG	AGTACCACAG	GGTAGGGATA
196981	GGATTAGGGA	TCATGATCTC	TGGAGTCTGG	TTTAGGCACT	AGTGCTGTTT	AAAACACGT
197041	TCATGAGGTG	GAGGTTGCAG	TGAGCCGAGA	TGGCGCCACT	GCACTCCAAC	CTGGGCGACA
197101	GAGTGAGAGT	CTGTCTCAAC	AACACAAAAC	AAAAAAAACC	AACTACCCTT	GTGATTTGAA
197161	TGTCCATCCA	AAATTGAGAA	CCATTAGGTA	AGGCCAAGCT	GTATAATTAA	AGAGCAGTTT
197221	TCATTTGTCT	GGTGTGGTGG	CAGCTTTTTG	ATAAGGGAAG	TATTGTTGCC	ATCCACATAC
197281	CTGAGCCTCA	CTCCTGAGAA	CACCTGGTGTG	TATGTTGCTA	AAATTCCCCA	GGTGATTCTG
197341	AGGTTCCCTT	CTGGATAAAA	ACCACTGACC	CTGGGAATGT	ACCCACTGCC	AATCTCCTGC
197401	GTAAACCTTG	GATACTGGGA	AGCCTACAGT	TGAAAATATT	GGGCTTGAGA	TCCTGAAACA
197461	AATCTTGTAT	TTCATTAAGA	CTAATATTTG	GTACAGTGCA	GCAAATCAAG	GGAATTTTGG
197521	TGGCTGAGTT	CTTTTAGAAC	TTTTGCATTG	AAATAGGTTT	AAGCAGCAAT	AAGTTAAAC
197581	TACAACCTCA	GCTAAAGGAT	TAAAAGACAC	GTGAGCTGGG	TAGGATGAGG	TCTAAGATTG

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197641	GGTGTGGCGG	CTCATACCTG	TAATCCCAGC	ACTTTGGGAG	ACTGAGGTGG	GTGGATCACT
197701	TGAGGTCAGG	AGTTCAAAAC	CAGCCTGGCC	AACATGGTGA	AAACCCATCT	CTACTAAGAA
197761	TACAAAAAAA	TTAGCTGGGC	GAGGTGCCAG	GCACCTGTAA	TCCCAGCTAC	TGGGGAGGCT
197821	GAGGGAGGAC	AATCACTTGA	ACTCAGGAGG	CAGAGGTTGT	AGTGAGCTGA	GATCGCACCA
197881	CTGCACTCCA	GCCTGGGTGA	CAGAGCAAGA	CTCCATTAA	AAAAATAATA	ATAATAATAA
197941	CAATAATAAT	AATTCAGACA	TATCCAGGCA	TCAAACAGAT	ACCTGGGGCA	GATGAATAGT
198001	CTTGAGATTC	AAGTCACACA	TGAAATTTAG	GTGGAAAATG	ACATTGGAGA	AATTTGAGAT
198061	TATGATGAAT	GGAAATTTTT	CAAAGAGGAA	TTTCAGGCTC	TGTTCTTGAG	GGGATAGATG
198121	GACTTCCAAC	AGCAATAACA	CAGGATTAAT	GAGGACTTGG	GATGTTACAT	AAATTAGAGA
198181	TGTTAGATGG	ATAAGAGAT	AAAAGTACTC	TCTCTAAGAA	CATGGGACCA	GAGATAGGCT
198241	CACTTCTAAC	CATCAGATAT	AACTAGCAGA	CTAAACGGTC	TAAAAATAAA	AATCATGCCC
198301	CACTCCTGCT	TAAGACATTT	TAATTACTCT	CAGTAACTCT	TCAGTTTTTC	TACTGTGTTA
198361	TCTTTAACTA	CAGGGTTGGT	CTGGGTGTGC	AACACAAGAA	AGCCTGGCAT	ATACATGGAT
198421	TCAAGTGAT	GCCATGTACA	GGTATTCTTT	CATGTACTAT	TTCATGTATT	CTTTTTTACA
198481	TCTGTTTTTT	CCTTCATTGA	AGTCAATGGC	TGATATTAGA	TTCTACTATT	CATGTGTACT
198541	AGTTATATAT	AATTGTTACA	AAACAAATTA	GCAAAAACCT	AGTGGCTTAA	AGCAACACAC
198601	ATTTATTATT	ACCTAAGGTC	TGTGGATAGA	AGTTCTGACA	TGGCTTAACT	GGGTTCCCTG
198661	CTTCAAGCCT	CATGTGGCTG	CAATCCAGGT	GTTGGCTGAG	TCTGAATTCT	CATCAGAGGC
198721	TTGATTGTGG	AAATTTCCAC	TTCCAAGCTC	CCTCAGGTTT	GTGAAAAAT	TCAGTCTTTT
198781	GCACCGGTAG	AAGCTTCTTG	GTAGAGGCTG	ATTCAACTTC	TAGAGGCTGT	CTGCAGTTCC
198841	TGTCACCCAG	GGTGGAGTGC	AGTGGAGCAA	TCATAGCTCA	CTGCAGCCTT	GACCTCCCAG
198901	AATCAATCTG	TTCTCCCACC	TCAGCATCCT	GAGTAGCTGG	GACCACAAGT	GTGTGCCATC
198961	ACACCTGCCT	AAAAAACAAA	CAAACGAAAA	AAAACCCCCA	GAGAACTTTG	TAGAGACAAG
199021	CTGGTCTGGA	ACTCCTGCGC	TCAAGCAATT	CTCCTGCCTT	AGCCTAAAAG	TTCTGGGATT
199081	ATAGGTATAA	GCCACCATAC	CTGGCATATG	GCAAGTCTTG	AGCAGGACAA	ATACAGATGA
199141	TTTATGTCTG	TCTTCCATGG	TATTCTAGGT	TATTGTTGAG	ATGGTCCTCT	ATTGTCTTGT
199201	TCCATCTATT	GATTAGATAA	AACGTTGTTC	CTTCTGTTAT	TTTTCAACAG	TAGCTTTTAT
199261	GTGTCTCTCT	TTATCTTAAA	ATTCTAACCA	AAGAGCTGCT	CTTTTCTTGG	TGTACTTTAC
199321	CTTTGGTTGA	TCCTTCTTAA	CCTCTTCTTG	CCCTCTGGGG	CCTAAGATGA	GGGCTGTTAT
199381	CAGATGTGAG	TCTATGGGAA	AGCAAGCAAG	AGGTTCTTCA	GCCTCCGTTT	AGCCTTAAAT
199441	GTCTAGGTAG	AAATCAGTCA	TGGCCCTTCC	AATGTGGTAC	AGACCAGATC	ACAGAGACAG
199501	GGGTCTCAGC	CAAGGTCTTG	TGGCCTAAGC	CTTATAGAAA	TAATGAGTGT	TTACTTACTT
199561	GGAGAACTCC	CTTGGAAATAT	CTTTTTTTGT	GAACCTGAGG	CAACTTTTGG	TGATTTCTTG
199621	ATGTCTTGGG	AATCTTGGTC	TAGAGCCATT	TCAACCTGAT	TTCTTTTTCAT	GTCAGTGGCA
199681	TTTTGTGACC	AGATAGTAAA	TAAGTTCTAT	GATGTTCACT	CAGAGAAAATA	CAATGACTTA
199741	TGATGTGAAG	CTTCTGTGGT	TCAGCCCTTA	CTTCATCTTC	ATTCCCTCTT	ATCTGCATCT
199801	GTCTCCTGCT	TGGGAACAAA	AGTCTGGCTT	CATTCTATGA	CCCCACGTT	GAGTTTCTTA
199861	GTAGCACTTA	CTTTTCAATT	AGGAGTGTCC	TCACTTCTAT	CCATCAGACA	TAACTAGCCG
199921	ACTAAACAGT	CTAAATATAA	AAATCATGTC	CTACTCCTGC	TGAAAACATT	TTAATTACTC
199981	CCCATCATTT	AATTTTTTCT	ACTGGGTTAT	CTTTAACTTC	AGAGTTGGTC	TTGTGTGCAA
200041	CACAAGAAAA	CCTGGCATAT	ACATGGATTG	AAGTGTATGC	CACGTGCATG	TATTCCTTCA
200101	TGTACTATTT	CATGTATTCT	TTTTACATC	TGTTTTTTCC	TCTAAAATTT	ATTTCTTTT
200161	AAAAATGAAA	ATTTTGCAAT	TGACTAAATT	TGTCAAATTT	AGTCAAATTT	GTTTAAACC
200221	ATTTTTTAAA	TGTTTCCCGA	AGTTTGTAGT	GAAGTTAGTA	CTTCAGAAAA	ACTGTTTGT
200281	ATTTTTTCATG	TGACCTCAGT	GCACCTGCTGT	GCAATTTCCAT	TTCTGCGTCC	ACACACATTT
200341	GTTTTGAGGA	AATATAGGAA	CGACAAGATA	AAGTTCAAGC	TCCTGGACAT	TGCATAAAAG
200401	ACCGTCATGA	CCTGGTCCTG	TTGACTTCCC	TAGATTTCCC	GCTATTTTCT	AAGTTGAGAT
200461	TTTTGGTTTG	GATGCTTTGT	GTTTTCTTAA	AATCAAATA	GGTTTTTGCC	TTTTATGATT
200521	ATACAGTAAA	TAAATGCTAT	TTGTGTGAAA	CTTTAAACAA	TACAAAAAAA	ACCTAAGGAA
200581	GAAAGTCAGA	TTCATCTAAA	AATCCTTGTG	GCCAGAATTA	ACTACCTTAG	TTATTATTTT
200641	CTCTATCTCT	CTCTCTCAAT	GTATATTTGG	TGTAGGTATA	GGGGTGTGTG	TAGTGTGTGT
200701	GTATGTATAT	ATCTGTTTCT	ATTCCTGTAT	GTGGATGTGC	ACAACGCATC	CTGCTTTGTA
200761	CACTACAGTA	CTAGCATTTT	TCTAATGTAA	TTCAATATTG	TTGAAAACAT	TTTAAAAAAG
200821	CTTGTATATA	TACACACACA	TACACATACA	TGCATGTATG	TACATATACA	CATACAGACA

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200881	AAAATGTATC	CTATGTATAT	TCACACATGT	ATACACACTC	ACACGTACAT	AGAGTTTAC
200941	ATCCATAGTT	TATAAATGTT	GCTTTTTTTT	GGTCACCTTT	TTGCTAAGTC	TTACTTTT
201001	TTTTTTTTTT	TTGAGACGGA	GTTTTGTTGT	CATTGCCCAG	GCTTAGTGCA	GTAGCGGAT
201061	CTCACCTCAC	TGCAACCTCG	ACCTCCCGGG	TTCAAGCGGT	TCTCCTGCCT	TAGCCTCCTG
201121	AGTAGCTGGT	ACTACAGGTG	TGCGCCACCA	TGCCTGGCTA	ATTTTTGTAG	TTTTTTTATA
201181	GAGACGAGGT	TTCACCATGT	TGGCCAAGCT	GGTCTGGAAC	TCCTGACCTC	AAGTGATCTG
201241	CCTGCCTCAG	ATTCCCAAAG	TGCTGGGATT	ACAGATGTGA	GCCACTGCAC	CCGGCCAAGT
201301	CTTACACATC	TTTTTTTTTAC	CACTAAACTG	TTTACCCAAA	CCTGATAACC	CAAGTCAACA
201361	GCTATTATGG	CTCACACAAT	CCTATGTAAA	CAAAGATACA	GATATATAGA	ATTTTCTTGA
201421	TTAATATTCA	GAAAAAATG	GAGTCCCTTT	ATACGTCCTT	AGTATCTGCT	TTACTCATTT
201481	AAAAATGTAT	TACATTATAT	GAAAGTATTC	AGGTCAAATG	TTATAGATGT	GATTCATTCT
201541	TTTAACTGT	GTTATTTTTT	TGCAATGACT	ATGTATCACA	AAGTACTCAG	TCTTCCACTG
201601	ATGAAAATTT	GGGCTATTTT	CAGTTTGTCT	TCCATTTTTC	TTTCTTCCTC	TTGGATTTTC
201661	ACTCAATGTG	TTTACTAATT	TAGGAAGAAT	CAATAGTTTT	TATGGTATTA	CTTCTCCCAT
201721	TCAAGAATAT	AGCATATGGT	ATAGTATAGT	AGAGTACTTA	GTTTAATTTA	GCCAGATCCT
201781	GTTTTCTGCC	CTTTAATAAA	ATTCTATCAT	TTTCTGCCTT	TGAGTCACAT	TTTCCTTGTT
201841	CATATAATTC	TTAAAAAATG	TATAGTTTTT	ATTCTAAGGG	AACATAAAAA	CTTCTTTCCA
201901	TTTCTATTCC	TGCTAGTTA	ATTCTACTAT	TGGGAAAAGT	AACGTGTTAA	AAAAATTCTT
201961	ATCTTCCAG	TCAGTTCACC	ACATTTCCCT	TATACCTTG	TACTTTAATC	CCCAGTCATG
202021	TTGAACACTT	CTTATTCCCT	ACACCAAGCC	TCAACGGGTT	TGCTCTTTCT	GGAAGGTGCT
202081	TCCCCTGTAT	TACTGACTTA	TTCATACCAC	ACATGGAGAC	TGGCGCAGCC	CTGTTCTGCC
202141	TGGGAAGCCT	TCCCCTGATA	CCCCTAGTTG	GCAGGAGTCT	TCATTTGTTC	CTGTCTAGTC
202201	ACCTGTGCAA	GTTTGTATTG	TTCATGTTTA	TCATCCTTCA	TTCTAGTTGT	CTGTCTCTAT
202261	GTGTGGTCTC	ATTCAGTGGA	CTCTGAACTC	TTATGAAGTC	ATGTCATGGG	TCAGATCTTA
202321	ATAAATTAAT	ATTGTGCGAA	GCTAATGTCA	TGTCTAGAAT	ACAGAAAATT	TATCAAAAAA
202381	AAATATAGTA	TGTTGGCTGG	GCGCAGTGGA	TCAAGCCCGT	AATCCCAGCA	CTTTGGGAGG
202441	CCGAGGCAGG	AGGATCACAT	GAGGTCAGAA	ATTCAAGACC	AGCCTGGCCA	AAATGGTGAA
202501	ACCTCATCTC	TACTAAAAAT	ACAAAAAGTA	GCCAGGCGTG	GTGGTGCCCA	CCTGTAATCC
202561	CAGCTACTCA	GGAGGCTGAA	GCGGGAGGAT	CACTTGAACC	TGGGAGGCAG	AGATTGCAAT
202621	GAGCTGAGAT	CATGCCACTG	CACTCCAGCC	TGGGCGACAG	TGAGACTCCA	ACTCAAAATA
202681	ATAGTAATAA	TAATAATAAT	AATTGTATGG	AATTGAACTG	CTCTGATTGG	AAATAGCTGT
202741	TTTTTAAAAA	ATTATTATTT	TTTAAGTTCC	TGGGTACATG	TACAGGATGT	GCAGGTTTGT
202801	TACATAGGTA	AACGTGTGCC	ATGGTGATTT	GCTGCACCTA	TCAACCCATC	ACCTAGGTAT
202861	TAAGTACAGC	ATGCATTAGC	TCTTTTACCT	AATGTTCTCC	CACACCCCCA	CCCCATCCTC
202921	CCCCAACAGG	CCCCAGTGAG	TGTTGTTCCC	CTCCCTGTGT	CCACGTGTTT	TCATTGTCTCA
202981	GCTCCCCTC	ATAAGTGAGA	ACATGAGGTG	TTTGGTTTTT	TGTTCTTGCC	TGATGCTGTTA
203041	ATGTCAGGCC	AGAGAGGCTT	AAATTTTTTA	GGATCTCTGG	ACTTTTCTTC	TACATTACTC
203101	TTGATGTTTA	TAAATGTTAC	AACCTCTTTA	ATTTTATTAA	ATGTATACCT	TATTGAGTTG
203161	ATTTAACTGA	GTAACTTTG	TTATATGAAA	ATCATGATTG	GGAGTGAGGG	GGTTAAACCA
203221	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCAAG	AATTCATTCA	TTCAGTAAAC
203281	TAATGTTTAT	TAAGCGTGTA	CTGTCTTAGT	CTGTTTCAGAC	TGCTGTAACA	AAATATCATA
203341	AACTGGGTGA	CTTATAAACA	ACAAAAAATT	TATTTCTTAC	AGTTCTGGAG	GTGGGAAGTC
203401	TAAGATTAAAG	GCCCTGGCAA	ATTTAGTGTC	TGGTGAGGAC	AGGTAGCCAT	CTTTTGTCTG
203461	AGTCCTAACA	TGGCAGAAGG	GTTGAATAAA	CTTCCTTGGG	TTTCTTTTAT	AAGGACACTA
203521	ATCCTAGTGA	TGAGGTTTCT	GCCCTCATGG	TATAACTACT	GCCCCAAGAC	CCCTCCTTCT
203581	AATATTATCA	CTTTGTGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTTG
203641	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TTGTGGATAT	AGTGATTCTC
203701	AAAATGAACA	AGATCCCCCTC	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTTA
203761	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TTGTGGCATT	GAATACTTTC
203821	GGCCACTCTT	TCCTTATTAT	ATTAAATATT	TACTCTTGTT	TGGGGGATCC	AGTCTCACCT
203881	ACTTTTTCTA	CCAGAACTGG	TATCAGCTCA	TGCTCTGCCT	TATGCAAATT	AAGAAAATAT
203941	CATACCTTTT	GGGTAAATTA	AGCCAAGAAA	GTTCTCCTTT	CTTCTCTTTC	TCTCTTTCTT
204001	TCTTTCTCTC	TTTCTCTTTC	TTTCTTTCTC	TCTCTTTCTT	TCTTTCTTTC	TTTCTTTCTT
204061	TCTTTCTTTC	TTTCTTTCTT	TCTTTCTTTC	TTTTTCTTTC	TTTCTTTCTT	TCTTTCTTTC

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204121	TTTTTCTTTC	TGACAGGGTC	TTGCTCTATT	GCCTAGGCTG	GAGTGCAGTG	GTGCAATCTC
204181	AGCTCACTGC	AGCCTTGAAC	TCCAGGGGCTC	AAGCAATCCT	CCTGAGTAGC	TGGGACTATA
204241	GGCATGTGCC	ACAACATCAA	GCTAATTTTT	GCATTTTTTT	GTGGAGACGG	GATCTCCCTA
204301	TGTTGCTAAG	GCTGGTCTTG	GATTCCTGGG	CTTATGCGAT	TCTCCTGCCT	CAGCCTCCCA
204361	AAGTCCTGGG	ATTACAGGCA	TGAGCCACTG	CCCCTGGCCA	TTATAACTAT	TTTCATTGGC
204421	TTATCAGGCA	CATGATAACT	ATAATAAATC	AATAACCAGA	ATTTTTAAAT	AAAGAAAGGA
204481	AGGAATTGTT	TCAACTCTTC	CTGCTACCCC	TCTATCCCTC	AAAAGGGTAG	GCTGAATGTT
204541	GTCCTCCAAA	GATATCCATG	TCCTAATCCC	CAGAACCTGT	AAATATATTA	CCTTATATGA
204601	CAAAAGGGAC	TTTACATGTT	TAATAAGTTA	AGAATTTTGA	GATGGGCAGA	TTTTCTTGAA
204661	TTTTGCAGAT	GGGCCCTAGT	GTAATCACAA	GGGTCCTTAT	AAGAGACAGG	CAGAAGAGTC
204721	AGAATAAGAG	AAAAATACTT	CAAGATGTTA	CACTGCTGGC	TTTAAGGTGG	AGGAAAGGCC
204781	AAGAGCCAAA	AAATGCAGTG	GTCACTACAA	GCTGAAAAGA	AAAAGAAATG	GATTTTCCCC
204841	TAAAGCCTCT	GGAGGGGGCA	CAACCTTGCC	AATACCTTGA	TTTTGGCTCA	GTGAAACCCA
204901	TTTTGGACTT	CTGACCTTTA	GAAGTGATAA	TAAATAAATA	ATTTTGTGTT	GTTTCAAGCC
204961	ATCACAGTTG	TGGTAATTTA	CTACAACAGC	AATAAAATAG	AATTAAATAC	AGAGATCTGA
205021	GGAGTTGAGT	AGGATAAGCC	TACTCCAGCA	GGTTATTTTCG	GGAGTATGGT	GAGACTCACT
205081	AGGATGGCGG	AACTCAATTA	AGGAAGTCTG	AAGCTGATAA	GCCAGAGAGG	GAAGGCTCTC
205141	ACTTCATTTT	ATAAGGGTTG	CGTCACACTA	GGAAGATCCA	ATAGCAACCA	CAGTCTCAAA
205201	ATTAATGATT	ACAAATAGGA	CACAAITCCA	AGAGTCGGGA	GCCAAGCAGA	AAATGGATTA
205261	GGGAAGACAT	GGATGATATG	AAACAGGAAG	GAGGGGTACA	AGGCAGCTTC	CTGGGAAGTT
205321	GCCAGGGCAG	TCACAGTTCA	CATTCAATAG	GCTGTGGGCA	CCAAATGCAT	ATGGAAAATC
205381	TAGCTGACTT	AACTGAACTC	CTGAAGAGGA	ATGAACACCT	CATTTATTGA	GGAGCTACTA
205441	CCAATTAGAA	TATGTATTTT	ATTTGTTCAA	TAACCCCATG	AGTACAGTAA	CACAATCCTT
205501	GCTTTACTAA	AGCGGAAGCC	AATTCAAAGA	GGTTCAGTGA	CTTGTCCAAG	CTCAGGAAAA
205561	ACACTAGGAA	GTGAATATGG	GTCTGACTCC	ATCACTGATT	TCAGGAGCCC	TGCCCTTTCC
205621	TCCACACCAT	GCCCCCTTGC	TTTCAGAAAA	AAAGGCTTGT	TGACTGAATG	GTTGTATGCA
205681	CAGTTCAAAG	CAGAAACACA	CGATGACATC	TTTTGAGATA	CTCTAACAGT	GAGAACTTGA
205741	AAATGAAGTT	AAAAATTAAG	CGGCAAAACC	AAGCCGAGGC	TTTCTGAGAA	AGTGGGGCCA
205801	AACCTGTTGC	CGTCTGACTG	CCACGTGGCT	CACTATTTAT	CCCTGTAAAA	ATCTGCAAAA
205861	GTATTTGAAA	GGGAAGAAGG	GACAGAAAAC	TCCCTCCTTT	TCCAAGTTAG	CCTTATAGTC
205921	TAGGGCTTAA	AATACTGGTT	TAATGGTGAA	GGTAAGTGCT	TTTCTTCTTT	TTGGGTAGAA
205981	GGATTATTAC	TAACCTACCA	AAGGTCCATT	AAGGGGAGGG	AACAGTTTTA	GGAGAAGTCA
206041	GAGAAAAGAC	ATTAACAGCA	ACATAAGGAT	CTCCATCTGG	TAATATTGCC	TAATTCCAAA
206101	ATGAAGAGAC	TCTCTGAAAA	AGATAACTGA	TTCAATGAAG	ACCCTAGGGC	AAGGCTTGAG
206161	AAGCCACTGG	TACCAATGGA	CACGTGGGAC	AATGGTCATT	TCTCCAAGGA	CGCTGTGAGT
206221	ATTAAGTGTG	ATGCTGTGAT	TAGTCAGACT	GGGATTGGCT	GTGGAATGAA	ATACTGATCA
206281	GAAGTACAAA	GATTTGTGTT	TGGGACTGTG	GCTAACGAGT	CTTTTCAGAG	TTCTATATGA
206341	ATTTGAAATG	GTCTCTCAGG	AAAAGGAGAA	CATGGCCGGG	CCTGGTGGCT	CACGCTGTGA
206401	ATCCCAGCAC	TTTGGCAGGC	TGAGGCGGGC	AGATCACTTG	AGGTCAGGAG	TTTGAGACCA
206461	GCCTGGCCAA	CATGGTGAAA	CCCTGTCTCC	ACTAAAAATA	CAAAAATTAG	CAGGGCGTAG
206521	CGGCGCGTGC	ACCTATGCGC	ATGCATAGTG	CGCGTGCCAG	CTATTCAGAA	GGCTGAGGCA
206581	GGAGAATTGC	TTGAACCCAG	GATGTAGAGG	TTGCAGTAGT	TGAGATCATA	CCACTGCACT
206641	CCAGCCTAGG	TGACAGAGTA	AGACTCTGTC	TCAAAAAAAT	AATAATAATA	AAAGAAAAGG
206701	AGAACATGAC	CAAAGTTATG	AATAAGACTG	AAGGCAAGAA	AATTGTACGC	TTGTAGAGAT
206761	CACCTAGCTT	GTTGCCCTCA	TTGTACAGCT	AAGAAAAGGC	ACCCAGGGAC	ATTGTGGTCA
206821	GCACCAATTT	CTCAGAAAGA	TAGGCAGATG	ATGAGAGGGC	CCTCAGTTTT	TCTAACACTG
206881	AAGGAATTGC	TTCTATGTTT	TCTGGTGAAC	TCCTCCCCAC	TCATCTTGAG	GATTCCAGGC
206941	CAGAAGAATC	CACTTTAAAA	AAGAAACCAAT	TAAACCAAT	TTAACAACCA	ATCAAAGGCA
207001	CTTTTATAGA	AATACATTTT	ATTTGCTGTT	GGCCTGTATT	TATGGATCTG	AGAGGGCTAG
207061	ACTGCCAATA	TTGTGACTGT	TTATTATTAT	TGCTGTTGCT	AGTATCTAGA	ATATTATACA
207121	ACATATAACA	CTTTGCAATT	TACGAGGCAT	GTCTCATACT	TTTGTTTTCA	CTCCAAACTG
207181	CCCAGTGAAG	TAACATTATC	CCAATTCTTC	CTATGAAACA	GTGAAAGCCC	TAAGAGTTTT
207241	TGAAACTTTA	CCTGGTTTAC	TCAATTTGGG	AATGGCAGAG	CAGAATTTCAG	TCCTTGAATA
207301	TCCTCCCACT	GCAGGTTTCAT	GCTCTTTGAT	CTAGGTGTAA	CATTTACTCT	GAGTAAACTA

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207361	GGACTCTGGG	CTAACAGAGA	TGAAGCAAGA	CAGGCTGGAT	ATTAGGAGAA	TCTAAGAGCA
207421	ATCTAACGAC	CATTATAATA	AAATCATGAG	TTCTAGACTT	AAAAAAGGG	AAAAACCTGT
207481	TTTTTTGCTT	ATGCGTATAC	CATAATATTT	ACATTATTTA	TTTTTTTCTC	AAATCAACC
207541	TATACGGTGT	CAAGTAATTT	TTTTTAATAT	AACATTTTCC	TTTAACTTAA	TTTCAATTCA
207601	TTTTTCTGTG	TCTACTTACA	ACTTTGGCAC	TAGAATTCAC	AATTTTTTTT	TAGAGGTATA
207661	TCTCCTTAAA	GGGAAGGGTT	CTGACACTGT	TACATGTTCT	CAATTGTTTG	CAAAATAGGTT
207721	AATAATTATT	CCAGTGCTC	TAAGTACATA	TCAACCATGC	CAGTGTTTCA	CCTCCATAAT
207781	TTTATTAGCT	TCTGTGCTTA	TTTTGGAAAA	ACATTTCCCA	TTACCATGAA	AGACCTCAGT
207841	TTAGGATGGT	TTGGTATGTT	AGCCTGATTT	CTGCATTTCG	CTCATGCAAA	GGAAAAATAGG
207901	AAACGAAGAA	CTGAAATTAC	CTATTGATAC	AAAATCAAAG	TAGCATTTGA	AACCATAAAA
207961	CTTAAGTAGG	GCTTTTCATC	CTTTCTCGTT	AGACAGCAAC	AGAGAATGGG	AAGAAAAACT
208021	AAAGTGATGG	GTTTGTGATA	CAATTCAGT	AACATAAAGA	GCAAGGAGAA	GTAGTTTTGT
208081	TGTGTTTATG	TTTAATATTC	AAAGCTCAAC	CTAAAAGTAT	TTTTCATTAT	CAAACCTCCT
208141	TCTAGAATAA	ATGATTAAAA	CTTGATTTAA	AATATACAAA	TTCTCCTTTA	TAATACCTCA
208201	AAATGGAGCT	ACCCCATTGA	GTTTTAAGCT	TGTGATTAAA	ATATTACGAA	AACAAAGGGG
208261	AAGTTGTAAT	AGGTAGAACA	AGCAGTAGTC	TAGGCATTAG	GGGATCTGGT	GCTGGCTCTG
208321	TGCATCATGT	GGTTTCAGGC	AACCTTTCAA	ATTTTCTACG	CAAATTTTCT	TATCAATAAA
208381	ATAACAGTT	GGGCCAGAGG	ATCTCTGAGT	CTCTTTCAGC	TTTCAGTGTT	TATAAGATTG
208441	GAGAAAGTTG	TGGGAAAGTT	TTAAGTGGAG	TGTAAGTAAT	TGCAGCTGCA	TGTACAGTTA
208501	AAGAGTTGCC	TTCAGCCAAG	CCACGGGATC	TTGCATAAAA	AGTGAAATCA	AATAGAAAAT
208561	GGTCCAAACT	CTGGGTTTGA	CCACAGATGA	CTTCAGCTAG	GATCTGAGTG	TAGAGCAATG
208621	AGCTGAAGTC	CTGATATCCA	GATGTTAGCA	AGACTTGGAG	GCCTTCTAAG	GCAGAGCAAC
208681	AACCAAGTATC	TGTCCTGGTG	CTGACCTGAT	CTTACTAGCA	ATTGGGCCTC	CATTTGGGTC
208741	CATTGTACAA	AACAACAACA	ACAACAACAA	TAAAATCTCC	AAACACCCAA	AATTCAAAAT
208801	TTAGATGGAG	AGATACTATT	CCCAGAATTC	TAGAGATATT	TGGAAAGCAG	AAAACATATC
208861	TTGCCATGCT	GATGAAGTCC	AATTATTGCT	CTTTTAAATA	CATTTAGCTA	CTTCTGAATA
208921	TAAAATGAGT	ATCTACTAAT	TATTTACAAA	ATCACTTGGT	AAATATAGAA	AGTCACAAAG
208981	AATGAAGTGA	TCATCCTGTT	TTGTAACCCA	GAAATAGTCA	TTACTGGCAC	TTGTGTGAAT
209041	CAGTTTCTAT	TCCTGTATGT	GGATGTGCAC	AGCGTATCCT	GCTTTGTACA	CTAGAGTACT
209101	AGCATTTTTC	TAATGTAATT	CAATATTGTC	GAAAACATTT	TAAAATAGCT	TCCATCACAA
209161	TAATCTATCA	AATTGACTTG	CCAGACTCTC	ATTATTAGGT	TAATTTATCT	CTAACATTAT
209221	GCAGTCAATG	GTAATACTAC	AAAGGATATT	TTTGGACACA	ATTTTTCATC	TATGCCTTTC
209281	TTTATAATCC	TTCATCCTAA	GGTCACAGAT	TATGAATATC	TTTAAAGTAC	GGACAAGTCT
209341	TTTAAATTTT	GTGTGCAAAA	ACAGTGCAAA	GCCTTGAATG	ATAAAATAGA	AGGTTGATAT
209401	ATGTGTTTTT	TTGTTTGTTT	GTTTTGAGAC	GGATTCTCTG	TCTGTCCCCC	AAGCTGTAGT
209461	GCAGTGGCAC	GATCTTGGCT	CACTGCAACC	TTTGCCTCTT	GGGTTCAAGC	AATTATCCTG
209521	CCTCAGCCTC	CTTAGTAGCA	GGGTCTACAG	GCATGTGCCA	CCACACCCGG	CTGTTTTTGT
209581	ATTTTATAGT	GAGATGGGGT	TTCACCATGT	TGGCCAGGAT	GATCTCGAAC	ACCTGACCTC
209641	AAGTGATCCA	CCCACCTCAG	TATCCCAAAG	TGCTGGGATT	ACAGGTGTGA	GCCACTGCAC
209701	CCGGCCGATA	CATGTGTTTT	TAAAGTCACA	GAAATTTTCA	ATGTCTTGAA	GGATTTTAAG
209761	CAATTTAAAA	AATAAAGTCA	TAGAAGCTTC	AATTTAGGAA	TGAATGGAAA	ATTGATGATA
209821	TTCTTAGGAT	ATGGATTTTT	CCTAAAAGAA	ACAAATGTAT	GCATCCCCAA	AGATAATTTG
209881	ATTAGTATAC	AAATATTAAA	TTAAACATGT	CCATATTTAG	AGCCATGAAT	TCTCTTTGCC
209941	TGTCACAATA	GCTGGATTTA	TTCACAATTG	TAGTAATTAG	TCCCTGTTCA	TTATAATTTT
210001	CTAGGTGATA	TGAAGACTTT	GTCAGTCCAA	GCAAGTGTC	ACATTGTGTG	TAGCAAACAT
210061	GAGAATAAAC	ATTTTAAACT	TTTAAATGTA	ATACATATTA	GTGTTATGTA	ATGTCATCCT
210121	TCATGTTCTGA	AGGCACATGG	AACATTGTTT	TGGTGGTACA	GAGGGGAGAG	AAACACCATC
210181	AGAATGAAAG	GAAAGACCGC	TCTGGAACCT	TCCTCCTTAG	CTCTTGAGCT	TAGTTTAATT
210241	GTCCTGTCTT	ATGGTCTGCT	ACAAGCAATA	CCACTCTTCA	CCTTCGCATG	CTTCTCTGTG
210301	GTTTGATAAA	GTACATGCAA	TTTTTCATTT	AATTCTTCCA	GCTGCACTAA	GAAAGGAGCC
210361	TTATCTTTAT	TGAACAGATG	AGGAAATGAA	TGATTAGAGA	ATTTAAATGA	CTAGCTCTAG
210421	GTCACACAGC	TGGAACCTTAC	AGCCAGATTT	CCTTTTAAAC	ATCCTGTAA	CAAAAGCATA
210481	CCAGTAGTGC	CCCATAAAA	GTAAGTTATA	GAGCTGTGTT	GGGTCAAAAC	TTTTACTGAT
210541	GCTAAGAGGA	GGCAACATTA	ACAAGGGGAA	ATTATTTGTG	TATTATGTTT	TGGATTATGT

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210601	TCTCTCCATA	GATAAAAGAC	TGTCGTAAGTA	AAAGAGATTC	AGGGCACAGG	GAAACTCCAC
210661	CACAAAGCGT	GGTACCATT	CCCACAGAAG	CTAAATGGAC	GGGAAGCCTG	CCACCAGGAA
210721	AGGTAAAGCC	ACTGCTCTTG	TTTGCAGGCT	ATGTTAATAA	GCTGAAGCTT	ATTCCGACAC
210781	ATTTACACAT	CTCTGCATCA	CACTGACCCT	TCGTAAAGAT	ACTCCCAGTG	TAACATTGGA
210841	GCCAGCTCCA	GCCCCTGATC	CTGTTGCTTT	TTCCTTAGCC	CCATGAAATC	ATCTGCGAGA
210901	AATTAAGCCA	AATAAGCAAT	AAATCCTGGG	ATCTAGGGAG	TGGAATAAGT	TTTGGGAAAG
210961	TCTTTTTTTT	TTTTTTTTTG	ACTGAGTCTT	GCTCTGTCTC	ACAGGCTGGA	GTGCAGTGGT
211021	GCGATCTCGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTC	GTGATTCTCC	TGCCTCAGCC
211081	TCCCGAGTAG	CTTGGACTAC	AGGCACACAC	CACCATGCC	AGCTGAATTT	TTGTATTTTT
211141	AGTAGAGATG	GAGTTTCGCC	GTGTTAGCCA	GGATGGTCTC	GATCTCCTGA	CCTCGTGATC
211201	CACCGGCCCTC	GGCCTCCCAA	AGTGCTGGGA	TTACAGGCAT	GGGCCACCAC	GCCTGGCCCG
211261	GGAAAGTCAT	TTTAAACCAA	CCTATGTATG	AATCCCTACT	ATAATATTCT	CACCAAGCGG
211321	CTGGCTCTTT	CTCCTGAGCT	TGGAAACCTC	CAGTAAAATG	GAAATAATTA	TTTCCCAGAC
211381	CACCACTCTT	ATCTGTGAGC	TTTTTTGGCC	ATTAAAAATT	ATTTCTTCCA	TTATATTTTT
211441	ATCTGTGTCT	TCACAGGTTT	TCTCTTTCTT	TCACTTTAGT	GCTTTTCTTC	AAATAAGCAG
211501	GAAAAATCCA	ATCTATCATG	CACATGGGAA	CCCTTTCAAT	ATTGGTCTGT	GGTTGTTCCA
211561	TTTTATGGGG	ATGCTTTTAA	AGAAAAAATT	TGTCCTTTCA	ATATATTGAA	TATCTTCCAG
211621	CACCACATCA	CCTGCAAGCT	TTGTAAAAAT	AGTTCTACAT	ATTAATTTTT	TTTTTTTTTG
211681	AGATTGAGTC	TCATTCTGTC	ACCCAGGCTG	GAGTACAGTG	ACATGATCTT	GGCTCATTGC
211741	AACCTCTGCC	TCCTGGGTTC	AAGTGATTCT	CCTGACTCAG	CCTCCCGAGT	AGCTGGGATT
211801	ACAGGCATGC	ATCACCATGC	CTGGGTAATT	TTTGTATTTT	TAGTAGAGAT	GGGGTTTCAC
211861	CATGTTGACC	AGGCTGGTCT	CAAACCTCTG	ACCTCAAGTG	ATCCACCTGC	CTTAGCCTCC
211921	CAAAATGCTG	GGACTACAGG	CGTGAGCCAC	TGCACCCAC	GTAGTTTTTT	TTTTTTTTTA
211981	AGTTGAACAT	ATGTGAAGGC	AGGACCTAGT	GACACATAGC	ÀATAACATTT	CCAAGTAGAC
212041	ATTACACTAG	GGAATTAGTC	AAAGTGCTCA	TTTAAAGTAC	CATCTCTCAA	ATGTATTAAA
212101	AGAGAATCCT	TGGATGTGCA	ATACCTTAAT	TCAAAGGCAG	CTCGTTATGT	ATAAACTCTC
212161	AAGCTTTGTG	ATAAACAAAT	GTGCATAACA	GATGGGACTA	TTGACTTACA	GCCCAGGGAA
212221	TTTTATTGAC	GCTGAGAAGG	TTATGTGACT	GGCTCTGCCA	CTGTCATCCC	CATTCACTTC
212281	ATTTTGGAGC	AATATGACAT	AAATGCCTTA	CATGTGGGTT	TTCTCTATTT	ATCATGTGTT
212341	TCCTATCCCC	TTGAAAGATG	GCCATATTTG	CTTTACTTGG	TTATAAGATC	CCATATTCGC
212401	TGTCTTGAAG	CCAACCAAAT	AATTTGACAA	AGTGGGTTTG	TAGTGCTGGC	TATTTTGGTG
212461	AAAAAAGAC	AATGAGACTT	CATGTGTCAT	CCAAAGTTCT	ATCAGATCGA	GCTGTGAGAG
212521	AAAGGAAAAG	AAAGGGGTCT	CAGTCAGGAT	GCTCACTGCA	TACATCTGTG	TTGTTGTCTA
212581	GGTCCAGATT	TCTGTTCATT	ACGCTATGGG	CTGGCTCTTA	TCATGCACCT	CTCAAACCTC
212641	ACCATGATAA	CGCAGCGTGT	GAGTCTGAGC	ATTGCGATCA	TCGCCATGGT	GAACACCACT
212701	CAGCAGCAAG	GTCTATCTAA	TGCCTCCACT	GAGGGGCCTG	TTGCAGATGC	CTTCAATAAC
212761	TCCAGCATAT	CCATCAAGGA	ATTTGATACA	AAGGTAAGTA	TGATGGAAAA	TAGGGCTCTT
212821	TGTTGAGAGA	AAAAACTTTG	AAAGGAAGGC	ATAGATCTTG	ATTCTGTGGA	GTATGGAAGT
212881	ATACATTTCC	AATGACAAAT	TAAAACTGAC	TGGAACATATT	TTTCTTTGAG	ACATTGCTTA
212941	CTTCAATAAT	AAAAATAAGA	TTTCATTGAG	GTTATTATGA	TTATAAGGTG	GGGGAACGTG
213001	AGAGTTAAAT	GTGAAAAATT	TAAAAATGGA	ACAGTTTATG	TGATGTCTTC	AATGAAAAAC
213061	TAGGTATTAC	CTGGGCACAT	TCTTATAGGT	TACTCAATCC	TATTCAGTTC	TCTGCCTGTT
213121	TTATTGTTTT	TGAGCAATTT	TATATCCCTG	TAAATTCTAT	ATAACCAATA	GAAATGCAAA
213181	CGATTCTTGT	CCATAGCTTT	GCAAATAAAT	TTTGCCAAGA	GAAAAATCAG	TTAAAACTTT
213241	TCTCCACTCA	CCTCCCAGTT	GAATTAGCCA	ATTTTGCTGT	TTGTTTGTTT	GTTTGTTTTT
213301	TGAGATAGAG	TCTTCCTCTG	TCATTACAGC	TGGAGTGCAG	TGGCATGATG	TCAGCTCACT
213361	GCAGCCTCCG	CCTCCCGGGT	TCAAGAGATT	TTCCTGTCTC	AGCCTCCCAA	GTAGCTGGGA
213421	GTAAGGGGGC	ATGCCACCGC	GGCTGGCTAA	TTTTTGTTAT	TTTAGTAGAG	ACAGGGTTTC
213481	ACTAGGCTGG	TCTCGAACTC	CTGACCTCAG	GTGATCCACC	CGCCTCGGCC	TCCCAAAGTG
213541	TTGGGATTAC	AGGTGTGAGC	CACTGTGCCA	GGCTCTGCTG	TATATTTAAA	GTCTATTTCA
213601	GCATTGCTTC	CTGCTTGTGT	TATGCGTGAT	TCTTTGAGTT	TTCCTTTGAA	CCAGTTATAA
213661	CATCTTACTT	ACTTCCTCCA	TTAATCAATG	AGTTAAATAA	AATCTTTGTT	GTATGTTTAT
213721	TTTACATTTA	TATGAAAACC	ATGAATTTAC	CCAAATTAAAA	AAATTATCCT	TTAAATTATC
213781	TTGTACTGTA	CATTTCCCAT	GTCATCCCTA	TAATTCATGA	TTAATGATTT	TATTACATTG

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213841	GACCTAGCTT	ATTTACAATG	AGTACATAAA	TTTATTGTCT	CCAGTCTTTC	CTCCATTATC
213901	CCGTCTACAT	ATCCCACTG	AGTAGATTCA	CTACTCAGGA	ATCTTGGACA	CCTTCAAGTT
213961	GCCAAACATG	CAGTGTTCAC	TGGACATGCT	GTGTTCCCTC	AGAATTTGGG	CCTGCTTCTC
214021	AGCACACTCA	CATCTGCTAT	CAATGACCCA	TGGAAAGTTT	TTGCCCTGAG	CAAGCCAGAG
214081	TCCCTGTTAG	TTTCTTCCAA	ATGCTACAAG	TTCACCTTTG	CTATTTTTTC	CGATGAGATA
214141	AAATTTTCCT	TTTTGACTTT	CTACAAATCA	TAGTCATTTT	TCAAGGGATA	GTTCAAGTAT
214201	TGCTTCCTTT	CTGGGACCTT	CCCAAATTAT	TATTTTCTCC	TCTCAAAGTC	TCTGTTTTAT
214261	TTATGTTTCAT	CCTCAAATCT	TGATTCTCAC	ATGAATCATA	TACCTTGTAT	TATTTATAGT
214321	TTTTTTGAGT	AGGTAAAATA	TTTCATATTT	TATATTCTTT	GGCTCTCTAC	TTTATAGCAT
214381	GATGCCAGAT	ATTTAGGGGC	CTTACTGCAT	TTATTTTTTA	TTTTATTTTA	AAATCTATTT
214441	TATTTTTTAT	TTATTTATTT	TAAAATCTAT	TTATTTTTAG	GTAAATATTC	AGGTAATATA
214501	ATTTATGTAA	TTATTTAGGA	ATTTTAGGTA	GTTATTTTAA	AATAATTCAA	ATTATTTATT
214561	GAGTTATATC	AGAAGAATGT	GATCTTATTC	ATTTGTAATA	TGTGTTTTAG	GAAGTCAGTT
214621	CAGCCAGGGC	AGACCATAAT	TCCCAAACCT	GACTTTTCTT	TTTAATTAGG	CACTGATTTT
214681	GGTTAAGAGT	TCAGTAAAGT	TTTGTGTGTG	TGTTTTAAAA	AATTCCTTGA	TATAAGAGTC
214741	AAGATGTTAC	TCAACTTTTA	CTAGAAGCAA	AATAGAGGAA	GTGCTTTCAC	AGATGAAATA
214801	TCTCTCAATG	TTTTCTTCCA	TTTACTTCTT	CCTATTATTC	ATCTATATAA	TCATTTTCTT
214861	TACTCTTTT	CTTCATTTCT	TCTGTTTTTC	TCTCCTACTA	AGACAAGCAA	ATTAGGGGTA
214921	TAATTGGTTA	TTTGGGAAGG	TAGGAAGAAT	ACAGAGAGAA	ACAAAAATCA	ATATTTTATA
214981	CTAGGGTCTC	ACTAACCCTCA	AGCAACTCTG	ACTGTAAAGT	AGATTTTCAT	AATAGGACTT
215041	CTTGACAAAG	AGTTTTCCTA	TTTTTCCCCC	AGGCCTCTGT	GTATCAATGG	AGCCCCAGAA
215101	CTCAGGGTAT	CATCTTTAGC	TCCATCAACT	ATGGGATAAT	ACTGACTCTG	ATCCCAAGTG
215161	GATATTTAGC	AGGGATATTT	GGAGCAAAAA	AAATGCTTGG	TGCTGGTTTG	CTGATCTCTT
215221	CCCTTCTCAC	CCTCTTTACA	CCACTGGCTG	CTGACTTCGG	AGTGATTTTG	GTCATCATGG
215281	TTCGGACAGT	CCAGGGCATG	GCCCAGGTAT	CCAGATACTT	TCTCATTCTT	GGTGGGATCC
215341	AGATTTCTGA	ATTCTACAAA	ATATCAAAGG	TCTTAATGAT	TTTCATTTCA	GGGAATGGCA
215401	TGGACAGGTC	AGTTTACTAT	TTGGGCAAAG	TGGGCTCCTC	CACTTGAACG	AAGCAAGCTC
215461	ACCACCATTG	CAGGATCAGG	TAAGTGTGCA	CAGATGGGTC	ATAGCTTTGT	CATCTGTTCC
215521	ATCCCCTGT	GTCTTATCTT	CTATGAATCA	AATGGTTTGG	GGAAGAGAGA	GAAAAAGTAC
215581	TGCTGAAAAA	TTCAACAATA	TAAGACACTT	GCATCACAAA	TAGGAAAGAT	GCATCTGTGC
215641	AGTAAAGACA	TTGAAGCTTA	GAAGTAGAAA	AAACCATTGT	GAGCTAGGTT	TCAGCTCAGA
215701	AAAGCCTTAG	TAGTCAGAAA	AGCCTTAGTA	GTCAGAAAAG	CCTTGTCGGA	AAAAGTTTAA
215761	ACCTTTAAGA	ATTGCACACA	TGGAAAAAGA	TCAAGTAAGC	TATATATACA	CCATCTTAGC
215821	AATGATTTTG	AAGTGAGAAT	TAAGGCTACC	ACAGCTCCAG	GTGGTAAGGA	GAGAAATCAG
215881	GCTGGAAGAG	TTTGAAGTTT	CTGTATTATT	CTAAGCTCTT	TACTATTCTA	TTATGAGCTC
215941	ATTAATTCTC	ACAACAACCC	TCTCATATAA	GTACCATTTT	AAATTCTTAT	TTTACAGAGA
216001	AGGGAGTTAA	GGAAGGTGGA	GATTAAGAAA	ATTGCCCAA	TACAAATAGC	CAGCAGGTGG
216061	TAGGTCTGAG	ATTTAAGCCC	ATGCAGATTT	TAGCCCCAGA	GCAGACATTC	TCAATCACTA
216121	TGCTAGACTG	CCTTTCCATG	GTATGTGATC	CTACTCAGGC	CTCTACAGCT	TTATCATTCG
216181	TGTTCTCCCC	AGCCTGTTCG	GCTGAGAGTA	TATACTCGAA	GAGCAGAACT	AAAATTCCAT
216241	CCAGCTTCTC	ACTCCTAGGT	CCACTACACA	GCTGCATCCT	GCAGACTTTT	ACCTCAAGCA
216301	ACCCTCCTGC	GTTCTTGCTT	CCTTCCATCA	TAGTTGTAAC	CATCTCCTCT	ATTTGCAAAT
216361	ACTATCTGCT	GATCTCTCTC	TTCTAGACTG	GTTTCTTTCA	ACCTTCTTCC	CACCAAAACC
216421	AAGTTAGCTT	GCTAAAATAA	AGATGGCGCA	TTTTTACTCA	CCCGCTTGAG	AATTTTCAAT
216481	GTGTTCTTTC	ATGCTTACAG	AGTAAAGCCT	GACCTCTTTA	TTGCATGAAT	ACAAAAGTTC
216541	TTAGCCATCT	GGCCCCAAC	TTGTTCCACT	CAACTCCCCT	GTGCAAGCAT	GGCTCCAGTG
216601	GCACTGGACA	TTGGCTGCTC	TCCACATAGA	TCTGCACCTG	ACTTCCCCTT	GGCTCTGCTC
216661	CCGTTAGTTT	ATATGCCTGG	AAAGTTCCTT	GCCCCGTGTT	CTTGTCCTCA	AATTCCTCT
216721	ATCCTATTGC	ATAGCTTATG	TAAAACTTC	CTAAACCTTT	TTTTTTTTTT	TTTTTTTTTT
216781	TTTTTTTTTT	TTTTTTGAGA	CGGTGTCTCA	CTCTCCGCC	CAGGCCGGAC	TGCAGTAGCG
216841	CTATCTCGGC	TCACTGCAAG	CTCCGCCTCC	CGGGTTCACG	CCATTTTCCT	GCCTCAGCCT
216901	CCCAGTAGC	TGGGACTACA	GGCGCCTGCC	ACCATGACCG	GCTAATTTTT	TGTATTTTTA
216961	GTAGAGACGG	GGTTTCAAGC	CAGGATGGTC	TCAATCTCCT	GACCTCGTGA	TCCGCCCGCC
217021	TCGGCCTCCC	AAAGTGCTGG	GATTACAGGC	GTGAGCCACC	GTGCCCCGCC	AAAACCTCCT

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217081	AAATCTTATA	ATTATTATCA	ATTTATCCTC	AGATATACTT	CCACGTACAT	TGTAGTTTTA
217141	TTATATTTAT	ATTTTACATC	TTTTTTTTC	AATTGCAGTT	TGGGACCCAT	TAGTGAGTCA
217201	TAAAATCCAT	TGAGCGGGTT	AAAATCATT	TTTTAAAAA	TGAGTAGAAT	AGAATAGAAA
217261	TTGTTGGAGT	GCATTGGACA	TGGTAAAGTT	AAATATCGAT	TCATGAAACC	ATCGTTTGAG
217321	GCATATGTGT	GTGGTTGTAT	GTACAAGTGT	TTATGCATAT	TGGTGTGTGT	GTTATGTTAC
217381	CCTGTAAAAT	GCATTTCTTA	CTATAGGTCT	CTGTGAAATA	TGTGTCTTGT	TGTTTTTTAA
217441	TGTAGACTTC	CAAAGCCTAC	ATGGCATTTC	ACTAGTGACA	ATCAATTTTA	TTCACATTTT
217501	TCTCTCCAAT	TGGACCAGAA	GCTCTTTGAG	GGCAGGGGCT	GTATCTTACC	GATTTTGTGA
217561	AGTCTTTCAT	TTCCTGCCCC	TAGCCTCATA	TTAGATCATG	CAAGAATGCA	ACTGTAATCA
217621	CAAGAAAATG	CTAATGGGCT	GTGATAGCAG	AGAGTTACTG	TGACAAACTA	AGGGATTATG
217681	ATTTGGTCAC	ATTGGTGTGT	AGGAGCCATT	GAAGAATCAG	AGAGTGTGTT	ACTATTATTT
217741	GTTAATTTTA	ATTATATCAT	ATTACTTTAC	TGGGGAAAAT	CTGTGAGCTA	TTTTAGAAAAT
217801	AAATACTCTC	ATTGCCCAAT	AATTCTAAGT	CTGCCACCTC	ACTGTTGGGA	CATTGTTTAG
217861	GGAGGCCACG	AAGTCTCAGC	CTTTGATATT	TTCATAAGTG	TTTTTCTCCC	TTTTTCCTTT
217921	AGGGTCAGCA	TTTGGATCCT	TCATCATCCT	CTGTGTGGGG	GGACTAATCT	CACAGGCCCT
217981	GAGCTGGCCT	TTTATCTTCT	ACATCTTTGG	TGAGTCACTT	TCTCTTAAAT	CCTAATGCCT
218041	CCATTTCTCG	AGCATCCATT	TTGGCACCTA	CACCACCCAC	ATTCTTCCTA	TATGAAAGAA
218101	AATGTCCTTT	ATCAAATGGA	AGATGATAAA	AAATGTCAAC	GGTTGGTATC	ATTTTTAATC
218161	TAGTCACACA	ACCTGATTAA	CACCTTCCTG	GTGGTTCTGG	GAAGCCACAC	GCAAAAGGTA
218221	GAGGAGTTGA	CTATTACAT	GGCACCACCC	GACTTGTGAT	GCAGTCTTGT	CCTTCCATAT
218281	CAAGCACCTT	CTGCAGAATC	TCTACCACCA	CATCTGAAGT	GCCTGCTATA	TGCAGTTAAG
218341	ATGTCAAAGA	TAGTGAAGTA	CATTTTCAAT	GTGTCTTCAT	ATTTTCATTAT	AATTATTATT
218401	TCTGTCCAAG	ATGCCTTTCA	CCTGTTCTCT	ACCAAGTTAA	TCTTGCAAAG	TTCAATTCAA
218461	ATGTTCCCTT	CCCCATGGGC	CCTTCCAGGG	CTTACCCTGT	CAGATTCTGG	CATTCTCTCC
218521	TTTATGATAT	TTCTCTCTA	GGTTATGTTG	GTGTGTAATT	ATTTATTTCT	CCTTTTCTTT
218581	CCACTAGACT	GTGAAATGCT	TGAGGCAAGG	AATCCATTCT	ATGTTTTTCAT	CACTTGGGTG
218641	TCATCATGGT	GCCTGATTTT	TAGCTTTAAA	ATAAAAGAAT	CAGTGAATCC	AGTAATTAGA
218701	GGGGATTTAA	AGAAAAGTAG	TCCTCAGAAT	CTTTTAACAT	AGAATGTTCT	TCAAATAAGG
218761	AATTCCAATA	ATAAGACAAT	TTTCTACACT	TGATTTTGTT	TTTATAGCCA	AATGGTGTCA
218821	TTAAATATAG	TCCTGGCCTG	AATGGCTTTC	TCATTAATGA	TGCTAATTAT	TTTGGTTTGT
218881	ACATGTTAAC	CAGGTATTGT	ACAAAAATAT	TTCTTTTGGG	AATCCATAAT	GGATGTATGG
218941	CTTGAATACA	AATAATACTG	TCTCTTGTA	GTGCATTGGA	AATTTTTCCT	TGCCACATGA
219001	TTTCATGGAA	GGTTGTTTCG	TGTATGATGT	ACTGCAAACC	TGACTATTCA	GATCTTCCGC
219061	AACAAGACAA	CCTATGTGTG	CATTAAGAAG	TTGCTGCCTA	AAATACATAA	CACTGTAATC
219121	ATTGGAGACT	TTAAAGTAAT	TAATCAGCTA	TGCAATGCCA	CGCTCCTGTT	ATCTCCAGAG
219181	GGCTCTGACA	TTGACAAATG	GTGGCTTTCT	ATTTGAGACG	TAATATCTAA	AAGAGTTTAA
219241	CAGGTTTGTA	GAAGGATTGA	AAGAAAGAAT	GGGAACATTT	AGGTCCTTAT	GGTAGAATAA
219301	GCATTAATTG	ATTAGTGTGT	AGAAGGGAGA	GGCATGCCAC	TTCAGAGGAA	ACTTCCCTCC
219361	CCCAGTAAAC	AAATCTACCT	AAAAACTAAT	TTTATCCCTT	CTTCCCAGGT	AGCACTGGCT
219421	GTGTCTGCTG	TCTCCTATGG	TTCACAGTGA	TTTATGATGA	CCCCATGCAT	CACCCGTGCA
219481	TAAGTGTTAG	GGAAAAGGAG	CACATCCTGT	CCTCACTGGC	TCAACAGGTA	CAGTGCACAC
219541	CTTGTAACCTG	TGGCCCATGC	AGAGGTCTCT	AGGGCAGGGT	GTGGATCTCC	TCTGAGAGGC
219601	ACCATCTTGG	CTGCTCTAAT	ACTCATGCTG	ATTAGATCTT	TCTTTTCAGC	CCAGTTCTCC
219661	TGGACGAGCT	GTCCCCATAA	AGGCGATGGT	CACATGCCTA	CCACTTTGGG	CCATTTTCTC
219721	GGGTTTTTTC	AGCCATTTCT	GGTTATGCAC	CATCATCCTA	ACATACCTAC	CAACGTATAT
219781	CAGTACTCTG	CTCCATGTTA	ACATCAGAGA	TGTGAGTTTA	CTTCCCTATC	TTCTACGAAA
219841	ATGATAATGG	TAATAAGGAG	AAACAGTTCT	GTGTTACCTA	TTACATTCTG	GCTTTACATA
219901	TAACCATTAA	TTTAACCTTC	ACAATGACCT	TGAGAGAGGC	ATTGTTATAA	TTCCCTTTTC
219961	ACAGATGTGG	AAACAGGACA	CCTTAGAGGTG	AGATAACTTG	CCCCAGGTG	CACAATACTA
220021	AGTGATAGAG	CTGCTGCAGC	ATCCATATTC	TTAACCACCTA	TGCTATACTA	CCACACCAGC
220081	TGATTCCAAA	GCTTCTTTTA	GAAATAATAT	TGCTGGGCCA	GGCATGGTGG	CTCATGCCTG
220141	TAATTCCAGC	ACTTTGGGAG	GCCGAGGCAG	GCAGATCATG	AGGTCAGGAA	TGCAAGACCA
220201	GCCTGACCAA	TATGGTTTAC	TAAATATCAT	CTACTAAAAA	TACAAAAATT	AGCCAGGTGT
220261	GGTGGCAGGC	ACCTGTAATC	CCAGCTATTC	AGGAGGCTGA	GACAGGAGAA	TCGCTTGAAC

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220321	CCAGGAGGTG	GAGGTTGCAT	TGAGCCAAGA	TCATGCCACT	GCACTCCAGC	CTGGGCGACA
220381	GAGTAAGACT	CCGTTTCAAA	AACAAAAAAC	CCAAGAAATT	AATATTGCTT	TTATCTGGAG
220441	CCCAGAGTGA	TGCAGCTTCT	GGCCCTCTTA	TCTGAGACAG	TGTTCTTTTA	GTGTGAAAAA
220501	GGATGCTAAT	TTTCCCCCAA	ACAACCCACA	GTATCATGGG	GGTAAGTTAA	TGGCTGGTCT
220561	GTGTAAGTGA	CAAATTTTGG	TGCTAACGTA	TCTCTATAAC	TACTCTGTAT	AAACTTCCTT
220621	CCTTCAGAGT	GGAGTTCTGT	CCTCCCTGCC	TTTTATTGCT	GCTGCAAGCT	GTACAATTTT
220681	AGGAGGTCAG	CTGGCAGATT	TCCTTTTGTG	CAGGAATCTT	CTCAGATTGA	TCACTGTGCG
220741	AAAGCTCTTT	TCATCTCTTG	GTAAGGATAA	GCGTGTGGGC	CCATTTAACC	AATCCCTTTT
220801	CTGCACATGG	TCTCAGAGGG	TTCCCTGACA	GCATGTCCTC	ATTGCCCAGG	GCTCCTCCTT
220861	CCATCAATAT	GTGCTGTGGC	CCTGCCCTTT	GTGGCCTCCA	GTTACGTGAT	AACCATTATT
220921	TTGCTGATAC	TTATTCCCTGG	GACCAGTAAC	CTATGTGACT	CAGGGTTTAT	CATCAACACC
220981	TTAGATATCG	CCCCCAGGTA	AGAGCTCTAC	CTGTTTTTTC	CCCTCCTCCA	GACCCCTCCA
221041	GAGGTGTTAG	ACCTCAGTGG	TCGCCGTGAA	ACTCTTTAAT	GTTACTGACA	TTGCACTAAT
221101	GGCAGAATGA	CAAATAACTA	CAAATATCTG	TCTGTGGCCA	TTTTTAGAAC	AACAAATGTG
221161	GCATTTTTAG	AACAACAATT	TCCAATCTTG	GCCAGTAATC	ATTTTGACAA	AAACCTTCCC
221221	AAGCTTCCCT	AACAGAGATT	GAAGCTGTGA	TGCTGGGAAA	AGGCCACAC	ACAGGTGATT
221281	TGGAAAAGTT	TCCATGGTGT	TGTTCATATT	AGCTACCACA	TATATATATA	TATATATATA
221341	TATATATATA	TATATATATA	TATATATATA	TACAGTCACA	ATAAGCCAGC	TCCTGTGCCA
221401	AGACTTGCCA	TATATCAACA	CATCTAATCC	TCACAGTTAT	ATTAGGTAGG	CCCTATTGTT
221461	ATCCCCATTT	TATAAGGGAG	AAGGCTGAGG	CACAAGGAGG	TTAAATGGTG	TGACTATGGT
221521	CACATAAAGG	CAGAGCCAGG	ATTTGGACTG	GGGGAGTCTG	GCTTTGGAGT	CTGTGTCCTG
221581	CCCGTTGCAC	AAACTGGCTT	CTACACTGAG	CAGCCAGGGT	AAAGAAACGT	GGTTCACAGA
221641	GAGACTGCAT	TGCTCCCTGG	TTATTGACTT	GGTAGATTGG	TAATTTTCAGG	TTTGGCAAAT
221701	AGACATTGCC	CTGAATGTCT	TTAGGTGAAT	GAAAAACTGC	ATTAAGCAAA	ATGACTTTGC
221761	CATTAGAGCT	GAATTGCATT	AAAGTTGAGT	TGCTGCAGAA	GCTGTAGGTG	GCTTTCTATA
221821	TAAAATCATT	TATAAAATCA	TCTTCCCATA	GATATGCAAG	TTTCCTCATG	GGAATCTCAA
221881	GGGGATTGGG	GCTCATCGCA	GGAATCATCT	CTTCCACTGC	CACTGGATTG	CTCATCAGTC
221941	AGGTTGGGTC	AGTTTATTGA	ACATCTTCAA	GTGGCAGGTA	TTGTTTTAGG	TGTTGGAGAT
222001	ACACACGGTG	CTCTAAAGAT	CTGGATTGCA	ACACAATTAC	TCTATTTACA	TGAGCCTCTA
222061	AATCAGACTC	TGGTAGGTCA	GATTTCCCAG	AGGAAGAAAA	ATATAAGCTT	ATTTTCTCAA
222121	GATGAATAGA	TGTTAGATTG	ATTAATAATGA	GCTGTTCCGG	TGCAGAAGAC	AGCACGTATG
222181	ACTTCCTAGA	GGTACATGAG	CATGAAACAG	TTCTTAGTTA	TGACCAGAAT	GAAAGACAGA
222241	TGTCAAGGAA	TAGCAAGAGA	CGAAGACAGA	GGGGCAAAAAG	AAGATCATGA	AGAATGATTG
222301	CAGACTAATC	CAATTTTTTAA	AAAATCACAA	AAGGGAAAACA	AAGTGTCCTA	GGCCAGTTTA
222361	AAGATAATTT	AATGTCTGGA	AACAGATCGG	CTGTGAGACA	TTGCAAGGAG	GCTTGCTCGG
222421	TGTTTGGAAA	TGCAGGCTCA	TGAGGAAGAT	GAAAAGACAG	ACCCAGGCAG	GGATGGAAGG
222481	ACTGACTAGA	ACCAACTTAC	AAAGAGAAGT	TTTGTTTTTA	CTACATTTCT	ATGTGATCAA
222541	GTTCCCAGGT	TAATATTTGA	CTAAACTGCT	AGGAATCCAC	TGTGACTATA	ATGCTGGAAA
222601	TGACTTAGTA	GGGCTTTCTG	AGGAGGGTCA	CACAGAAGAC	CAAAGAGAAC	TCATGTTGAA
222661	TTGAGATGGG	TTATAGTGAT	AGTTGTCAAC	AGCCAATACA	GAAACAAAAA	AAAACAAAAC
222721	AAACAGCAAC	AACAACAACA	ACAAAAAATA	AAAACAGAGA	AGACACAAAC	ACAATGCCAC
222781	AATGCCATTT	TAGGCATAAT	TTTAAATTGAG	TAATATTATA	TGTTGAAATC	CAAATTTTCA
222841	GAAAAACATT	AGTGTATTTT	ATTTTGTGTT	AAAGAAATAA	CCATCTCAAC	TCAGAACCCC
222901	ATGTGCATTT	TGGCCATTTT	GTTTCCAATA	TTTTCATAAA	CTTTCTTAAG	TAACTACTGC
222961	ACATTGTTCC	TTATATTCCT	TGTGATCAAC	ATTGCAATAC	ACAACTGGGA	GGGCTACTAG
223021	AACTGGTGTA	GAAGGAACTT	GTGAGATTGA	TCATTTTCTC	TGTTTTTTAC	ATCTAGGATT
223081	TTGAGTCTGG	TTGGAGGAAT	GTCTTTTTTC	TGTCTGCTGC	AGTCAACATG	TTTGGCCTGG
223141	TCTTTTACCT	CACGTTTGGA	CAAGCAGAAC	TTCAAGACTG	GGCCAAAGAG	AGGACCCTTA
223201	CCCGCCTCTG	AGGACATAAA	GTTACAAACT	TAAATGTGGT	ACTGAGCATG	AACTTTTTTAA
223261	ACATTTTTTA	CTTCTCTCCA	TATTCCTGAC	CATAGACTCA	GCAGTTCTTA	ACTCTGGCTG
223321	TGTGTTAGTC	TTCCCTGGGG	AGCCTTTATA	AGACACTGAT	ACTTGGGACC	CCTCCAGAG
223381	ATTCTGAATG	AATTGGTCTG	GGGTGGAACC	CAGATACTAC	TAATTTTTAG	ATACTCCTTA
223441	GAGGTTTCTA	GCATGCGCCC	GGGTTTGACA	ACAGCTGGAC	AAACTTGAAA	AGTCAATTCA
223501	TGTGGCCTTT	GAATTTTCCT	CATTGGAAAG	TACTAAATAA	ATAAAAAATTC	ATGTGAAAAT

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223561	GATCACTGAT	AAATATCTTC	ATGGTGGGGC	AGGTTATTGG	ATGCAGAGAA	GATCTGCTCG
223621	GAATTGTAGC	CATATGTTAC	AGATCTCAGC	ACCGATCAGA	ACTGTAAAGC	TATAATCCCC
223681	AGAATTAAAG	TTTTTATTAT	TTTTTATACA	TTGTAACAACA	TAGACGTTTA	TTTATGTGAT
223741	TAAATTCCTAT	TAAAATTTAC	ATGCTAAAAAT	AAAATAGACC	ATTTTCAAAT	TATTTAGATC
223801	CAGATATTTT	CATCAGATTA	AACAGATATT	TATTTATCCT	AGCCCAATTG	CAAGAGATTA
223861	ATGATGAGAA	AATGACCAAT	ACAAGATTAA	ATAAATGAGG	TTAACTTAGA	AATCAAGGAC
223921	AGAGAAGATA	GAACCTGGAAA	GCTTGTATTG	TGAGAAGAAT	GAATGTGAAG	GAAGGCAATG
223981	TAGACACTTC	CAGAAGGGAT	AGCAATATAG	TTTAGACCAT	ATAATGAAAA	TTGGAGAGAG
224041	ATGACAGAGA	CACTTTCAAG	TGAAATGACA	ATTTATATGG	GGGAGAAAAA	TATTGAAGAC
224101	ATAACAAGAT	GAGAAAAGGC	ATAGAAATGT	ATCACATACA	AGGCATAGAA	GTGTATCACA
224161	TACAAGAGAA	GTTCTTTTGG	AGCGTAGAAA	AAGATAATTT	AACCTTCTTC	ATATTTTTTCT
224221	TACTTTCCCA	AGATACTCAG	ATAGGCAGCG	TCAACTCTAA	CAGGAATTAA	TTTGGCTCCT
224281	AACACTTAAG	ACATATCCTT	TAGTTTGTCT	CCTCACACAG	AACTGATTCT	GGTTTTTGCCA
224341	CAACATGTCT	AGAGAAGAAG	TTCCCAACCAT	ATTTTAAATC	CTATTAAAAA	ACTGCTTGGA
224401	CAAGAACCCT	GGGCTAATTC	AGCAGATGAA	GAGAATCTCC	TAATGCAAAT	CAATGGGTAT
224461	TTTTGAGCAA	GTTTTTCAGA	AAAACAGAGT	GTCAGGCCCT	GAGGGTGGTA	CTAAGATGAG
224521	AACATTGATT	TTGCCTTCAT	GATATTGACA	ACACAAAAGAG	GAAAGGGGGT	TTGCAGAAAA
224581	CTAAAAGAAG	AAGTAGAAGA	AAAAAGAAAG	ACATAGTATA	ATAGGTAGTC	AAATTATGTA
224641	CAGAAAAAAG	AGGAAAAAAA	ACCAAAAAAG	GGTGGGGGAC	AGACAACCCA	ACTAAAAAAT
224701	GGGCCAATGA	CTTGAACAGG	GACTTCATAA	AAGAGAAAAAT	GTAAGTGGCT	CCTTAACATA
224761	TAAAAAGATG	TTCAACTTCA	TTAGTCATTA	CAGAAATGAA	AATCAAAACT	ACAATGAAAT
224821	ACCACTATAA	AATTAACATA	TGGATAAAAT	GAAAGGAGAT	GGAAAACAAA	ATGTTGCCAG
224881	ACATGTGGAG	CAACTGGAAC	TTTCATACGT	TACGAATGTG	AACTTTGGAA	AGCTGCTCGG
224941	CAATATCTCC	TAAAGCTAAA	TGTACAATTC	CAGTGACTCA	GACATTTTAC	TTAGAAATGC
225001	ACATATACAT	CCATAAAACA	TGTACAACAA	TGTTCATAGG	AGCACTATCT	GTAATAGCCT
225061	GAACAGGAAG	TTGTCTGTTA	AAAAAAGAAT	GAGTAAATAA	ACCACGGTCT	ATTTGTATAG
225121	CAATGAGAAT	TAACAGACCC	CAATATATAA	TAGATGAATG	GGTCTCATAA	GCACAATATT
225181	GATTAAAGGA	AGACAAAACG	CACATTCTTT	TAAAGGTTTA	TAAAATACTT	TTTAAAAACA
225241	GCTACAACCA	ATCCGTCCTG	TTAAAAATCA	GTGAGCGATT	TCCCTTGTGC	AGGGATGGGG
225301	GTTGTGGCTG	GATGGATGGT	ACTTAAGAAG	TGCTCCTGGG	GTACTAGAAA	TATTTTATTT
225361	CTTGACTTGG	ATGTGTGTTT	ACTTTGTGAA	TATTGTACAT	TTATGATTTG	TGCACGTTTA
225421	TGAATGTAGA	AAATAAAACA	GAAAGCAAAAT	TCAAAGTATC	ATCCTTTTGA	GAGCTTCTGC
225481	TCTGACTTCG	TTTTGACCAA	TGGAGCAGTT	GGGAAGGGGT	CTTGGTCCCT	CGGTCTTTTG
225541	CTTTTTTTTT	TTTTTTTTTT	TTTTAGACAG	AGTCTCACTC	TGTCGCCCGG	GCTGCGAGTGC
225601	AGTGGCTCGA	TCTTAGCTCA	CTGAAAGCTT	TGCCTCCCGG	GTTTCATGCCA	TCTCTCTGCC
225661	TCAGCCTCCC	CAGTAGCTGG	GACTACAGGC	ACCTGCCACC	ATGCCCGGCT	AATTTTTTGT
225721	ATTTTTTAGT	AGAGACGGGG	TTTCACCATG	TTAGCCAGGA	TGGTCTCGAT	CTCCTGACCT
225781	CGTGATCCGC	CCACCTGAGC	CTCCCAAAGT	GCTGGGATTA	CAGGTGTGAG	CCACCGCGCC
225841	CGGCCCCCTG	TCCTCTGCTT	TCATGTTCTT	CTTGGTCCTG	TTCTCTCTCC	TCTTTTGTG
225901	GAACTTCCAG	TATCAGAGCA	GGAAGGAAGG	CAATGGGTCA	ATCGATGCTG	TCAGCTTTTG
225961	GATCAAACCTG	CAAGTTCTCA	AACAGCAAAA	TTAATGAGCT	CAGGCTTTGA	AGAAACCATG
226021	ACCCTGAAAG	CATCAGTTGC	TTCCAATTGC	ATCAGTTGCC	ACGGGTGATA	AGAACAATGA
226081	TGACTCAGAA	TGCCTAGGTT	TTCCACAGCAG	CTTCTCTGAG	GTTTTCCCAG	CAGCTTCTCT
226141	GATTGATTCC	TGACAGATGA	CTTCGGTGTG	TCAGACTTTC	AGGGTATCTT	TCCTTATGTG
226201	ATGGTTTGAG	GAAGAGTTAC	CATTACACAT	CCTAATGGCT	TCAGAATAGA	TGCAATTGTG
226261	AACTGATAGG	AAACATTTCT	AATTCATCTC	CCCTCCCCAT	CCCTAAAGGA	TTGTTTCTAA
226321	CAATAGTCAT	GAAAATTAAT	TCACTTTTCT	CAAATAGTTT	ATTGTCACTT	ACCTAATGAT
226381	GAGATGACTT	ACTTTTTCTC	CTTGACTGTT	AAATATTATG	AATTATATTA	ATGTATTTCT
226441	TAATGTTGAG	CTTTCCCTTG	AATATTCTTT	TGATGTACGA	CAGAATTTGA	TTCACTAATA
226501	GTTTTATTAG	GACTTTGGCT	GATGTACTGA	TATATGAGAT	TGGCTCTGTA	TGCATACATG
226561	TGTTTTGTGT	ATCTTTTTTG	TGTCTGGATA	TGGAGCTTAT	GCTGATTTCA	AAAACAAGAA
226621	AGGAGAACTT	TCCTTTTTTCC	CCATTACTCT	GAAAAAGATT	GACTAGAATG	GAATTTTTAT
226681	AATTGCTGTT	GTTATTTGAA	AGCTTGAAAG	CATTGGTTTG	TAAAAATCAT	GCAGGCTGAA
226741	AGCCATTTTG	AGGAGACTTT	GATAACTTTC	TCAATTTCTT	TCAGTTACTG	GTCTTTTAAG

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226801	GGGTTTTATA	TTTTTCTTTG	ATCAATTTTG	ACCATTTATG	TTATCTTGGA	GGATCATCTA
226861	TTTTACACAC	TATTTAAAGT	ATATTTGCAA	AAATTCAACT	GTTTTATCAG	GCTATCTTTT
226921	TAATAATATA	TTCATTTTAT	CTATATCTGA	GGTTTTAGCT	TCTTTGTACT	TCTGACCCAA
226981	TTGCATGTGT	GCTTTCTTTC	TCCTTCATTA	GACTACTTAG	TCATTTACTA	ATTTTAAGAA
227041	TAGCTTGTCT	TTTATTTATT	TACTTATTTA	TTTTTGAGAC	GGAGTCTCAC	TCTGTCACCC
227101	AGGCTGGAGT	GCAGTGGCGC	GATCTCGGCT	CACTGCAACC	TCCGCCTCCC	GGGTCAAGT
227161	GATTCTCCTG	CCTCAGACTC	CCGAGTAGCT	GGGATTACAG	TCATGCACCA	CCATGTCCTG
227221	CTAATTTCTG	TATTTTAAAT	AGAGATGGGG	TTTTGCCATG	TTGGCCAAGC	TGGTCTCAAA
227281	CTCCTGACCT	TAGATGATCT	ACCCACCTTG	GCCTCCCAAA	GTGCTGGGAT	TACAGGCATG
227341	AGCCACTGCG	CCCAGCCCTG	CTGTCTTTT	TATTTTATAT	TTGATTAGCT	TTATCTTTTA
227401	TCAAGCTTAT	GTCCTATTTT	CCTTTGCTTT	ACTTCATATA	AATTTTGTTT	TGGATAGTTT
227461	ATTTATTTTT	CATTTAATTA	TGAAACAGGT	TAAAGCTTAG	AGGAAAATTG	CTCCTCTAAG
227521	TCCACTTTTG	TGGGCAGATT	ACATTTTGCT	GTGTTGTGCT	CCCAAATTCA	TTGTTCTTTT
227581	AATGCTTTAT	TTCTCAAGTT	AATAACCTAT	ATAGTAAAAA	AGTGGCTGTT	GACTCTCAGC
227641	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTGTA	GATACAGGGA	TCTTGCTGTG	TTGCTCAGGC
227701	TGGTCTGAAA	CTCCTGGCTT	CAAGGGATCC	TCCTGCCTTG	GTCTCACAAA	ATGCTGGGAT
227761	GACAGACATG	AGACACCATG	CCAGCCATG	TCTCTCTCCT	TATATATAAT	AAGAAAACAG
227821	ACACACTGAG	GCATCCTATC	ATCTCACTCT	TGGTTTCACT	ACTGTTCTCT	GGAGGTTTGT
227881	CTCTGACCTT	TTGCAGTTAA	TGTATTAATT	TTGCATTGAG	TAGTTTCCAT	AGAAGAATTA
227941	TAGCATTTGC	ATTCTGTTGG	GTATTATACT	TTTCACTGTT	ATTTGAACAT	AATTTGAGGG
228001	CTGAAACCAA	GATGAGGCAA	GTGAGGTGCC	CAGGAAGCAA	TATTTAAGGA	GGCATCCTTT
228061	CTTAGGCTCA	TGCAAGAACA	GAATTGGCAC	ATGAGAGTGA	GTGCCTCCTT	AATTTTGAGT
228121	GCTGGACACT	TCTTGCTCAC	TTAGCATACC	CCTGGACAAT	GAAGTGTTTT	TTGTTTTGTT
228181	TTTTCATGTC	CATCCTTTAT	CCTTCTTCAT	CTCAAAACAT	TTCAATGGAG	TATTTTTTTG
228241	GAGCAGTACT	TGGATGAGCC	TCTGAGTCCC	ACAGTAGCTG	AGAATTTATT	TCATAGTACT
228301	CTTTATGATC	ACTGTGGAGC	CTTAAACAT	TGTAATATTA	ACTTAGCTGG	GAACAGAAAT
228361	TTTGTCCAC	AATTTGTCTT	ATTGAGAAC	GTATTGACTT	CCTGCTAGTC	TCTTCTGATG
228421	TCCAATATGA	GGAAGTCTAG	TTAGCCAGCT	ACTTTTTGTA	GGAGAGCTAT	GTTTAGGCTA
228481	GGTGCTATAG	GATTCTCTTT	ATCCTGGAAT	TCCTTCACCA	AGATGTGCCA	AGGTGTTAAT
228541	CATTTTCTCT	TGCTTTTTGG	CTGGTGGTCT	TAGAGTTTCC	TTCGATTTTG	TTTTATTTAG
228601	TGATTGTCCT	CAATTTGTTT	TCTTTACTAA	GAATCTCTCT	TCTATTTTAT	TGTATGGTAA
228661	AACCTTGTTG	CCCATCTTTC	TGGTTTCTGC	TGACTTTTCAT	TTTTGGACCT	TTTACTTTGC
228721	TTTCTCCATG	GACTTTTTTG	TAGTGGAGGC	AGGCAAAAC	TTTCCAAAGT	CTTTCTCAAT
228781	TTCCATCAAT	TTCAACTTAT	TTCTTAAAT	TGCCTCAGAA	TGTGCCTATG	TCCACAATAT
228841	CCCTCCTTCC	ACTTTAGAAA	GGAAAGGCAT	CCACACTTTA	TTTAGGTGCA	ATGCCTGAAG
228901	TGTAAACACT	TTCTGGTTGT	CAACAAAGGA	GTACTTCCAA	ATATTGGTTT	GGGGATAACC
228961	TGCTAATGAT	TAACACATTC	ACCTTGGCTC	TTGGTTTGCC	TGCTCCCTCT	TCTTTTATCT
229021	GCTGTGTGTA	TTTTTTTTTA	TCACTGAGAA	TATGCACAGT	ATTGTATGTT	TTATTATAAG
229081	AGAGGACTGG	CCAGAGTGGG	AATGTTCTGA	ATTCAGAATA	ACTGAAGCAG	TACAGGATAG
229141	GAACATATTC	TTTCAAATGA	AGCTGGCATA	TTTTCCCAGA	GCACCAAATT	TCAATATATA
229201	TTTAAAAAAC	TTGATATGAA	TGATACAATA	AAGTGGTTAG	AACTTTTATT	AAAATAAACT
229261	TATGTCATGA	AATACTTATT	CTAATTATAG	TCACTCTTCA	TCTTATTTCA	TCTTATAACA
229321	TGTTTAAATGT	TTTCTTTTAT	TTACAAAACA	ATTTATTTT	TGATGAAAAG	TTTTAGAAAT
229381	CAAGTTAAAA	ATATTCAAAG	GAATGCCTAA	AGTTTTTCAA	ATTCTTTTAC	ATGTTGTACA
229441	ATCAAAAGAG	TCTGAAGACC	ATTTAGCTAT	CCAAATTGTT	TATTTTAAAG	CAGTATCCCT
229501	TCTAATATTT	ACTATTTATA	ATCCTTAAAA	ATTTGCCTTA	GCACAGGAGA	ATTGCTTGAA
229561	CCCAGGAGAC	GGAGGTTGCA	GTGAGCCAAC	ACAGTGCCAC	TGCCCTCCAG	CCTCGGCGAC
229621	AGAGTGAGAC	TCTGTCTCAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAAGGCC	AAAAACAAAT
229681	AAACAAACAA	AAAAATCCGC	CTTAACATTA	TTTGTTTCATT	AAAAACTTTC	TTTAATACTA
229741	CTAGTTTCCC	TTTCCTCTCA	GCCCATTGTC	ATATTTTGAT	TTTTATCACT	TGCTTTGTAG
229801	GACATATGAG	GTTTTTGTTT	TTTTTTTTTT	TTGGAGATGC	AGTCTCCCTC	TGTTGCCCGT
229861	GCTGGAGTGC	AATGGCGCAA	TCTTGGCTCA	CTGCAACCTC	TGCCCTCCTG	GTTCAAGCAA
229921	TTCTCCTGCC	TCAGCCTTCC	AAGTAGCTGG	GATTACAGGC	ACCCACTACC	ACGCCTGGCT
229981	AATTTTGTGA	TTTCTGGTAG	AGACGGGGTT	TCACCATGTT	GGCCAGGCTG	GTCTCGAACT

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230041	CCTGACCTCA	AGTGATCCAC	AATCCTTGGC	CTCCCAAAGT	GCTATGATTA	CAAGCATGAG
230101	CCACCTGCCC	AGCCAGAATA	TATGTTTCATT	TTGAGTCCTT	TAACAAAGTC	ATAAGAATTT
230161	TAGGAATTCA	GTTACTTTCT	TGAGAAAATC	TCTGAAAAGA	TGCCAATAAT	TTGTAGCCAA
230221	TTATATTGAT	TTCTCTTTTT	CATATTGAGA	ATTGTTTTTT	AAAAAGTTTG	TATGTGTGAA
230281	GATTTTTGCA	CTGTAGTTAA	AGAAACCACC	TGTGTGTTGG	TTAAGCCATA	AGTACATGTA
230341	TTCAAATAAA	TTGAGGTGGG	GTTACTCTGA	GAATCAAAGG	AAAACCTGAA	GAAACAGGCA
230401	GCCTCAAAAG	GTCTTAGCTG	TAGCAACTTG	CTCCATTGTT	GAAATAAATA	GGCTTGAAC
230461	TGTATTTTCC	CTCTACTCAA	CATTTAAGGT	CTCAGAAGAT	AATATAATTG	GTGAAATTTA
230521	AGTAAAGTGC	TCACTCTTTT	GCTTTAACAA	ACCCTAGAGA	GCTGGTAGGC	AGAGCCTCAA
230581	CAGACCGTTT	TAGCTTCCAA	AGGGAGTTCA	GGACACCATG	ATTCACGACC	ACAATACATC
230641	ACACATAATT	GAGAAAAGAT	AGTTCCACCA	AATAAAGTTG	AAATGCTGAC	AAGAAGGGGT
230701	AAGAAATCTT	GGAAATAGGT	TTATATAAAA	TTTATTTTTT	CCTTTTTTAT	TGTTATGGAA
230761	TAGGACCAGT	TCTACTTAAG	CCACCCATTT	GCCAAAATAA	AGTGAGAATC	GTTTCTTTTG
230821	GGGACTCCTC	TTTGTAGCTC	CAAGTGCCAC	TAACAATTCT	TAGGACCTGA	GCTATAAGCC
230881	AGGTGATTTT	AGTTAATATG	ATCAATTATT	TCATTTAAAT	GGCTCTAATG	TGCAGAGGGA
230941	ACGGAGCCCA	TCAGCATTC	CTGCAGGGAA	CTGCAGTGGC	TTTTATCAAC	TTGAACAGCT
231001	AGCTTTCAAC	TGTTTTGAAA	TCACCTTCAG	GGTGGTCATG	TAGTTGCTTT	TTTGAAATCA
231061	GAAGATGATT	CTGCCCTCTT	TAATATGTGA	CTCCTCAGAT	TCAGAAAGTG	CTCGCTAGTC
231121	TTAAGAGTGA	ATTACCCTCA	TGGTCCAGC	GCTTATGAAC	CCACATCTAA	CCCTATCCCC
231181	TGGGGGAACT	ATCAGAGAAA	TTGGTGCCAT	GGACATAAGA	GGAAGGCACA	GTGAAGCAGA
231241	GAGCCCCGCA	TGATGAAAT	CAGTGGACAG	CATCATTATT	TACAACCTTG	TAATCACCCA
231301	GGAGCATGAA	AATCCAGGCC	AATCTGGCAC	CATGAGCTCT	AATTTTTGTT	GGAGTTCCTG
231361	GAACCGATT	TGATGAATGA	CTGTTTAGCC	ATTTTAGAGT	GTGGCATACG	TGGCTGCTGG
231421	CATACAGAGG	TTGGATGTAA	ACGGGCCTTT	GCCCTCTCTT	ATGAACATAG	ACAGGAAC
231481	AACTGTGTCA	CATAGGTTCC	AAATGGTGGC	CTGAATACTA	TTTACAAC	AGGTACAATG
231541	AAATTGAGTA	AGTCTTTTCC	TCTTTTGAG	ATACCATCAT	TATTCATATA	TTTCTTCAAA
231601	GTAACTATT	TGTATTTGGT	AATTTTTAAT	AGAAATGTAA	TAATTGCTTC	TCAAGTTTAG
231661	TCTTTAGTCT	TAAGGTTGAT	GCTCTCCATG	TCCTTCCAAA	AAAAGGTATG	TTGCTTTTAT
231721	TATATCCTCG	CCTTCAGATG	GGATTATTCC	ATTTTGTTCT	TTGTTAATAT	ATACTTTGAG
231781	CCACTTTTTT	TGTGGCTCTG	GGTGAGATGC	TATAGGTACA	ATGACAAGTG	ATACGTGTGT
231841	TGTCCCTGTC	ACAAAAGTGG	ATAGCCTAAG	TGGTGACTTT	TACCTCCACT	CCAAATATAT
231901	GTATCACACA	CCAGCCGTAT	GCCAGGCACC	ACTCTAGGTG	CTAGGGATAC	AGCAGTAAAC
231961	AGACAAATGC	AACCCCTGCC	CATGTGAAAG	AGAATAAGAC	AATAAATAAG	TAAAGTGCAT
232021	GTTATATGGA	GGTGGCAAAT	GCTAAAAAGA	AAAATTAAGC	AGGCAAGAGG	ACTCATTGAA
232081	AAGATGACAT	TTGGGTAAAA	GCCCATGTAT	ATATGTTCTA	TTGGTTTTAT	TTCTCTGGAG
232141	AGCCCTGACT	AATACACAAT	GACTTTGAGA	AGTTACTGGC	TTTTGATTTA	TCACACTATT
232201	CGGAGTGCTG	AGAGCCTTCT	TAGTGTGTAT	TCAGTGTTTT	AAGAGAGCTT	GTGGATGAAT
232261	AATAAATAGG	ACAAAATTTA	TCCAAACTTA	AGCCTTGCTT	TAGGTAAAAG	GGCTCCTCTT
232321	ACAAGGTAGA	AGGTTATTAT	TTGACATTTA	AATCCAAC	AAGACTAATA	AGACTAATTA
232381	ATTAAAGTT	TTTAAATCAC	AACTGCGTGC	AAAATAAATG	GAAGTGGCAT	GCTCGCCAAG
232441	TGTGCATGAG	TGGTGTGCAT	GGGAGACAGC	ACGAAGCTAA	TCCCACTCAT	CTTGCAGGTT
232501	GCTCCATTTT	TCTCCTAAAA	TCAGTAAGAC	AGAAGCTGGT	CAGATTATCA	AGAGCCCTAG
232561	TTAAACACAG	CAGTAGCATT	TGGAAGGGGT	TGCTCTCATT	AGGCAGTGCC	TGACCACAAC
232621	AAGAGATGAA	CAAGCCCTGT	ATCTGAAGCC	ATCATGCCTA	GTTATGGTCC	CCGACTGTTC
232681	ATGATGCCTG	GAAGGGAGGC	CCCCTGCACC	CTAGAAAGCT	GGGTGGGTTC	TACTGTCTGC
232741	TTTACTGCTA	AAAACCTCT	TCTTTGGATC	TGGACTTTAC	CTCTATCTGA	TTTTTTTTTC
232801	TAATATATGA	TTTGGCACTG	AGTCTGTCAC	TGCTGCTAAC	TCAGCAGTTC	TAGGGTCATT
232861	GCCCCATTGC	CTCACAGAAA	GAATTCATA	GCTTCCAGCA	TCCTCTCTCC	TCTATTATAC
232921	TTTGATTTCA	GCATTGCTAT	TTTTTCTCTT	GGGTGTTGCA	GCTCTCTCTC	TTCTCCCAT
232981	GTCTTGTTGG	TTTTCTGCTA	ACTCCTGCTT	TTTTTCTTTT	TTTTTTTTTG	AGACGGAGTC
233041	TCGTTCTGTC	ACCCAGGCTG	GAGTGCAGTG	GCACAATCTC	GGCTCACTGC	AACCTCCGCC
233101	TCCCGGGTTC	AAGCTATTCT	CCTGCCTCAG	CCTCCCAAGT	AGCTGGGACT	ACAGGCGCTC
233161	ACCACTATGC	CCCACTAATT	TTGTATTTT	TAGTATTGCT	GTCATCAATC	CACATGTCCA
233221	GAAGCACCTA	GAAACTCTAA	TTCTTTGTAG	GTATCAAACC	CTAGGACTCT	TTCTCTAAT

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233281	CACAATATAT	AATCCCTGAT	TCCCAAACAC	GGTCTTTTCA	TATACATTTT	CCACTGTACA
233341	TACTTTCTGA	CCTGGAAAGC	TCTTACACAA	ACACGCCCTC	CCCTAGGAAG	CCTTTATAAA
233401	TGTTCCCAGG	AAGAATCAGT	CACCCAACAG	TGTCCTTGTC	ACATCTTAGG	TTCTACACCT
233461	TTATTTGTTC	TATCTGAATG	TAATCTCCCA	GAGGGTGTTA	TCATCTTTT	TTTTGAGATG
233521	GAGTCTTGCT	TTGCTGCCCA	GGCTGGAGTG	CAGTGGCATG	ATCTCGGCTC	ACAGCAACCT
233581	CCACCTCCTG	GGTCAAGTG	ATTCTCCTGC	CTCAGCCTCC	TGAGTAGCTG	GGATTACAGA
233641	CGTGTGTAC	CACACCTGGC	TAATTTTTGT	ATTTTTAGTA	GAGACAGGGT	TTCACCGTGT
233701	TGGCAAGGCT	TTCTCGAAC	TCCCAAACCTC	AGGTGATCCA	CCCACCTCAG	CCTCCCAAAG
233761	TGCTGGGATT	ACAGGTGTGA	GCCACCATGT	CCAGCCCCAT	CTTTTCTTT	TAGTTTAGTT
233821	CTTAACAAAT	AGTCTGACAC	AAAGTGGATA	TAACAATATT	TTGAATTATG	AATAACTAAA
233881	TGAATATTTT	CAGATTTTCT	GGTGTCTCTCA	AAGTTTTATG	TTACAAAAGA	AAAACAAGTC
233941	TAAAATACCT	GCCTCAAGTT	TTTATCTGTA	CTATGATTTT	AAACCAAATA	AAAAACAGGT
234001	GGGGTAAAAA	CTGAAACAGG	AAATACATAT	AACTGAAAAA	TTTTGGTATG	TTAGTATGAT
234061	AATACTAGGT	CATTTTCTCT	GTTTCCCCAA	CTTCATTTT	TATAGCAATA	AAAAGAAACA
234121	AGTAAATGTA	TGTTAATTTA	ATTTAAAAGA	AGTAGTCTAC	CATCTCTTCT	GTTAAAAAGA
234181	AAAAAGTATT	TTAAAAAATT	ATCTCTGGAA	GGATACACAG	GGAACATTGC	TCTGGTTTCT
234241	TCCAAGAGAG	AAATGAGGAA	CTAGAGAGCA	TGGCCAAGTG	GGGTTTTGCT	TTGTTTTTGT
234301	TTTGTCTATC	TGTTAGCTTT	TTATTATTTT	CTTTTGTAGG	TTTGAATTTT	AAACCCATA
234361	AATCTGTTAC	ATGCTCATAA	TAATAAGTTT	AAAATAAAAC	TTTTGGCTGG	GTGCAATGAC
234421	TTACACCTGT	AATCCCAGCG	CTTTGGGAAG	CAGAGGTGGG	AGGATACTTG	AGGCCAGGAA
234481	TTTGAGATCA	GCCTGGGCAA	CATAGTGAGA	CCCTGCCTCT	GTAGAAATAA	ACAAAAATTA
234541	GCTGGATATG	GTGGTGCATG	CTTGACTCTC	TAGCTACTTG	GGAGGTTGAG	GCAGGAGGAT
234601	CCTTTGAGTC	CAGGAGTTTG	AGGCTGCAGT	GAGCTATAAT	CACCCACTGC	ACTATAGCAT
234661	GGGCAATAAG	GTGAGAACTT	GTCTCAAAAA	AAAAAGGGGG	GGGGGAAACA	AATAAATAAA
234721	TATAAACAAA	ACTTTTGTTT	CAAAATATGT	AATATTTAGC	ACTAAAGAAT	TCTGAATTGT
234781	AGAGCTAAAA	AGTACTTAAA	AGTTAATAAC	TATTGTCTCC	TTTAAAAGAA	TTGTTATCAA
234841	AGTATAATTT	TTATCCAGAA	AATCATCCAT	ATCAGCAAGC	TAAACTTTCT	CAAAATGACA
234901	TATCCATGTA	ATTAGCTCCC	AGGTAATTAG	CAGGCAGCCT	CTACTCAGGT	TGAGTATTCC
234961	TAATCTAAAA	ATTGGAAATT	CAAAATGCTC	CAAAATCTGC	AACTTTTTGA	ATGCTAACAT
235021	GATTCTCAAA	GGAGTGCTCA	TGGAGTATTT	CAGATTTTGG	ATTTTTGGAT	TTGAGATACT
235081	CAGTATAATG	CAAACATTCC	AAATCTGAAA	AAATCTGAAA	TACTTCTGGT	TCTAAGCATA
235141	AGGGATACTC	AACGTGTGTT	AGCTAATTAG	ACCTTTCATG	GTCTCTTCTA	GACCTCAGCT
235201	TCTTCAAGGT	AACCTCTATC	CTCACTTCTA	ATAGCATGAA	CTTTTCTGTT	TTAGAATAAT
235261	TTGGATTTTC	AGGAAAGTTG	CAAAGATAGT	ACAAAGACAG	TACAGGAGAG	TTCCCATATA
235321	TCTTTCACCT	AGCTTTCCTC	CATTGTTAGG	ATTTTACATT	ATTATGATAC	ATTTGTCAAA
235381	TATAAGCAAC	TCACATTGAT	ACATGAAACT	CTATTAACCA	AACCCTAGAC	TTTATGTGGA
235441	TTTCACCACT	GTTTCCACTA	ATGTTTTCTT	TCTGTTCCAA	GGTCCAATCT	GGAATACCAC
235501	ACTGCATTTT	CTTGTCATAT	CTCCCTAGTC	TTTTTTTGTC	TGTGACAATG	TCTCAGTCTT
235561	TTCTTGCTTT	TCATGACCTT	AACAGTCCTG	AAGATCATTT	GCTTTTTTTT	CATAATTACA
235621	CCGGAGTTAT	AGATTTTTTG	AAATAATACC	ACAAGGGCAA	AGGGCCCTTC	TTGTCACATC
235681	ATTTTAGGGA	GAACATGATA	TCCACATGAC	ATCACTGATA	TTAACCTTCA	TCATGTGGTT
235741	TAGGTAATGT	TTCAGGTTTC	TCTACTGCAA	AGTGATTTT	TTCCCTTAAT	TTAGCCCACC
235801	TGAACCTATC	AATTTTGTTT	TCTTCCATGA	CTAATACTTT	TGTTATTATA	GCTAAAACCT
235861	CATTGGGGCC	AAATCTTAGA	TCATGTAAAT	TTTCTTCTAT	ATTTTATTCT	AAAAGCTTGT
235921	AATGTTTGAT	ACATTCTAAA	AGATGTAATG	TTTGATACAT	TACATCTAGT	CCTTTGATTT
235981	ATTTTATAGT	ACTTTTGTAT	AAGGTGTGAG	AGATGTCTCC	AGTTTCACTT	TATTAACACA
236041	TTGTGGTGTT	CCAGTACTAT	TTGTTGCTAA	GACTATCTTT	TTCCATTGTA	TTACCTTTGC
236101	CTTAGTTGGC	AATATTTTTG	TTGGTTTATT	TCTAGACTGT	TTATCTCATT	CCACTGATTT
236161	GTGTCTATCT	TTTTGACAAA	ACTGTTGATT	ACAGTAAGCT	TTGAAATAGT	TCATTTTTTG
236221	TGTCAACTTG	ACTGAGTCAG	GGGATAACCA	GCTATCTGGT	TAAACATTAT	TTCTGGCTGT
236281	GTTTGTGAGC	GTGTTTCTGG	ATGAGATTAG	CCTTTGAATA	GGTGATCCTA	GTAAAGTAAA
236341	CTGTCTTTCC	CAGTGTGGAT	GGCATTATGC	CACCTGATAT	TCAGGGTCTG	AATAGAAGAA
236401	AAGGCAGAGG	AAGGGGGAAT	TTGGGCCTTT	TTTTCTGCCT	CACTGCTTGA	GCTGGGACAT
236461	CTCATCTGGT	CTCCTGCTCT	TGAAGTGGGA	TTTACATCAT	CAGTTCCTCT	GGTTCTCAGG

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236521	CCTTCAGATT	CAGACTGAAT	CATACCACCA	GCTTTCCTGG	GTCTCCAGCT	TGCAGATTAC
236581	AGATCATGGG	ACTCCTCATC	TTCCATAAAT	GCATGAGCCA	ATTCAGTCTA	TGTCCTTGAA
236641	AACTGCCCCA	CTGCAGATTA	AGGCTTTTTT	CCACTAGGTG	AAATAAAGAA	GCTTGTTAGA
236701	CAGATTTCCC	TTCATCCAGT	GCCCTCTCCT	CTTTAAGTTA	CAACACATTG	GCTACACCTA
236761	AGTGCAGGGG	TGGGGATGAG	GGTATAGTCC	TCTTGTTTGC	TGAGAAGAGA	ACTGTATTGG
236821	GAAAGCTCTA	GAAGTGTTTG	ATACATACAT	AAACAAGGCA	TGGTTTTTGC	ACTTAATTTC
236881	ACATTACATT	TTTCCCAGAA	AAAAAGGAAT	GTATAGGCAT	CACGTAAGTG	TACTAGCTGG
236941	AGTCATTCTT	CCTGATTATC	AAAGGTAAAC	AGTTATTAAT	CCTATACCAA	GATGTCAAGG
237001	AGAAGTACTT	TTGGAACACA	AGGAATTCTC	TGGGAGTCCT	TACTACTCTC	AAGCCCAGTG
237061	AAAAAGTTAA	TGAAAAACTA	TAGTACCTTC	CTATAAGCTG	GATGACTAAT	TACCAGGCTC
237121	ATTTAGGAAT	TTGCCTTACC	AAGTAAACA	TAAGGGCAGC	TGAGGTGCTG	ACTGAAGACA
237181	AATGGAGCAT	AGAATAAGAG	TAGTAAAGAA	TGCCAAAAAT	GCTGTCATGT	ATCCATTGAC
237241	AAAAGGAGCT	ATAAAGCCTT	TAGGTATTTT	CACACTTGCT	CTGTTACGTA	AATGTATGTG
237301	TGTGTGTGTG	TGTGTGTGTG	TGTGTG			

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C07H 21/04; C12Q 1/68; C12N 15/63, 15/85; C12P 21/02

US CL : 536/23.5; 435/6, 70.1, 325, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.5; 435/6, 70.1, 325, 320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG'S BIOTECH cluster.

hemochromatosis, BTF1, BTF2, BTF3, BTF4, NTP-3, NTP-4, RoRet, butyrophilin, type 1 sodium transport

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	RUDDY, D.A. et al. A 1.1-Mb transcript map of the hereditary hemochromatosis locus. Genome Research. May 1997, Vol. 7, No. 5, pages 441-456, see entire document.	1-20, 22-77
X	FISCHER, L. et al. Cloning of the 62-kilodalton component of basic transcription factor BTF2. Science. 04 September 1992, Vol. 257, pages 1392-1395, see entire document.	28-33, 71
X	MARGOTTIN, F. et al. Participation of the TATA factor in transcription of the yeast U6 gene by RNA polymerase C. Science. 25 January 1991, Vol. 251, pages 424-426, see entire document.	22-27, 70

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
I document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	* & * document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

20 JANUARY 1998

Date of mailing of the international search report

12 FEB 1998

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHENG, X.M. et al. Sequencing and expression of complementary DNA for the general transcription factor BTF3. Nature. 05 April 1990, Vol. 344, pages 556-559, see entire document.	34-39, 72
X	PANTEGHINI, M. Electrophoretic fractionation of 5'-nucleotidase. Clinical Chemistry. February 1994, Vol. 40, No. 2, pages 190-196, see entire document.	52-57, 75
X ---- A	BURT, M. J. et al. A 4.5-megabase YAC Contig and physical map over the hemochromatosis gene region. Genomics. 15 April 1996, Vol. 33, No. 2, pages 153-158, see entire document.	1-6 ---- 7-20, 22-77
A	VERNET, C. et al. Evolutionary study of multigenic families mapping close to the human MHC Class I region. J. Mol. Evol. November 1993, Vol. 37, No. 6, pages 600-612, see abstract in particular.	1-20, 22-77

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-20, drawn to polynucleotide sequences containing at least one polymorphic site, polypeptides encoded thereby, antibodies to said polypeptides and a method to determine the presence of the HFE gene mutation.

Group II, claim 21, drawn to the lymphoblastoid line atcc crl-12371.

Group III, claim(s) 22-27 and 70, drawn to BTP1 nucleic acids, gene products, vectors and antibodies.

Group IV, claim(s) 28-33 and 71, drawn to BTP2 nucleic acids, gene products, vectors and antibodies.

Group V, claim(s) 34-39 and 72, drawn to BTP3 nucleic acids, gene products, vectors and antibodies.

Group VI, claim(s) 40-45 and 73, drawn to BTP4 nucleic acids, gene products, vectors and antibodies.

Group VII, claim(s) 46-51 and 74, drawn to BTP5 nucleic acids, gene products, vectors and antibodies.

Group VIII, claim(s) 52-57 and 75, drawn to NPT3 nucleic acids, gene products, vectors and antibodies.

Group IX, claim(s) 58-63 and 76, drawn to NPT4 nucleic acids, gene products, vectors and antibodies.

Group X, claim(s) 64-69 and 77, drawn to RoRet nucleic acids, gene products, vectors and antibodies.

The inventions listed as Groups I-X do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups I and III-X are drawn to physically different genes and their gene products and each therefore constitutes a separate invention. The lymphoblastoid cell line of Group II is not dependent upon the vectors of any of the Groups I and III-X and therefore constitutes a separate invention. Accordingly, the claims are not so linked by a special technical feature within the meaning of PCT Rule 13.2 so as to form a single inventive concept.